Collections
Catalogue of digital curriculum resources
## Contents

**Introduction**  
6

**Collections**  
8

**English and literacy collections**  
8

- Explore letters, words and text (Years 0–2)  
- Create interesting writing (Years 3–6)  
- Listening skills (Years 3–6)  
- Growing up in Australian film (Years 5–8)  
- Gender in advertising (Years 7–12)  
- Poetry (Years 7–12)  
- The writer's craft (Years 7–12)  
- Visual literacy – reading images (Years 7–12)  
- Adolescence in Australian film (Years 9–12)  

**History collections**  
11

- Horse transport in Australia (Years 0–10)  
- Horse power in rural Australia (Years 0–10)  
- Washing, sorting and baling wool (Years 0–12)  
- Heritage sites in Australia (Years 0–12)  
- Horse power in urban Australia (Years 0–12)  
- Camel and donkey transport in outback Australia (Years 0–12)  
- Early cars and trucks in Australia (Years 0–12)  
- Bicycles as a form of transport in Australia (Years 0–12)  
- Eureka Stockade (Years 0–12)  
- Dismissal of prime minister Whitlam, 1975 (Years 0–12)  
- Constructing the Snowy Mountains Scheme (Years 3–10)  
- Murray-Darling river system over time (Years 3–12)  
- Drovers (Years 3–12)  
- Shepherds (Years 3–12)  
- Transportation by bullock team (Years 3–12)  
- Federation celebrations – inauguration of a new nation (Years 3–12)  
- Convict artists of New South Wales (Years 3–12)  
- 'Bound for Botany Bay' – transportation of convicts to New South Wales (Years 3–12)  
- Voyages of discovery by the peoples of the Pacific (Years 3–12)  
- European exploration of the Pacific (Years 3–12)  
- Contact between the expeditions of Captain James Cook and the indigenous peoples of the Pacific (Years 3–12)  
- Australia's first federal parliament (Years 3–12)  
- Life on the Victorian goldfields (Years 3–12)  
- British migration to Australia in the 20th century (Years 3–12)  
- Italian migration to Australia in the 20th century (Years 3–12)  
- Migration to Australia and New Zealand before the gold rushes (Years 3–12)  
- Gold rushes in Victoria (Years 3–12)  
- Chinese miners on the Australian goldfields (Years 3–12)  
- Leisure in 1950s Australia (Years 3–12)  
- Rabbit plagues in 19th- and 20th-century Australia (Years 3–12)  
- Australians at the beach, pre-1930 (Years 3–12)  
- Environmental activism in Australia (Years 3–12)  
- People of the Snowy Mountains Scheme (Years 3–12)  
- Women's suffrage in Australia (Years 3–12)  
- Vietnamese refugees and immigrants (Years 3–12)  
- Anzacs and Gallipoli (Years 3–12)  
- Children and migration to Australia (Years 3–12)  
- Travelling to the Australian goldfields (Years 3–12)  
- Gold rushes in New South Wales (Years 3–12)  
- Japanese, Indonesian and Malay pearl divers in Broome (Years 3–12)  
- Gold rushes in Queensland (Years 4–9)  
- Convicts in Tasmania (Years 4–9)  
- Charles Kingsford Smith (Years 4–10)  
- ...
Landmarks in aviation (Years 4–10) 25
Early years of the Flying Doctor Service (Years 4–10) 25
Steam transportation in Australia (Years 4–10) 26
Sydney Harbour Bridge (Years 4–12) 26
Depicting Australia’s cultural diversity (Years 4–12) 26
William Barak (Years 4–12) 27
Oodgeroo Noonuccal (Years 4–12) 27
Logging in 19th- and 20th-century Australia (Years 4–12) 27
Doug Nicholls (Years 4–12) 28
Whaling in 19th- and 20th-century Australia and New Zealand (Years 4–12) 28
Growing wheat in 19th- and 20th-century Australia (Years 4–12) 28
Betty Campbell joins the Women’s Land Army (Years 4–12) 29
Gold rushes in Western Australia, 1890s (Years 4–12) 29
Explorers in colonial Australia (Years 4–12) 29
Federation celebrations – opening of the first Parliament of Australia (Years 4–12) 30
Pacific Islander indentured labourers (Years 4–12) 30
Migration of displaced persons to Australia, 1947-53 (Years 4–12) 30
Equal pay for equal work (Years 4–12) 31
Indigenous Australians and the First and Second World Wars (Years 4–12) 31
Wurundjeri people and the settlers of Port Phillip and beyond (Years 5–9) 31
Ngarrindjeri people and the settlers of the lower Murray River area in the post-colonial period (Years 5–9) 32
Noongar people and settlers in the Swan River colony (Years 5–9) 32
Indigenous people and British colonists in the area that became Sydney (Years 5–9) 32
Indigenous people and colonists of Van Diemen’s Land (Years 5–9) 33
Franklin River dam (Years 5–10) 33
Wave Hill walk-off (Years 5–10) 33
Western Front (Years 5–10) 34
Boer War (Years 5–10) 34
Exploration of Antarctica: the ‘heroic era’ (Years 5–10) 34
William Cooper, Indigenous Australian activist (Years 5–10) 35
Day of Mourning protest (Years 5–10) 35
Wiradjuri people and the settlers of inland New South Wales (Years 5–10) 35
Bushrangers (Years 5–10) 36
Squatters on their ‘run’ (Years 5–10) 36
Ned Kelly (Years 5–10) 36
Mapping Australia (Years 5–10) 37
Snowy Mountains Scheme in overview (Years 5–10) 37
Flying in Australia (Years 5–10) 37
Free selectors (Years 5–10) 38
Australian Constitution writers (Years 5–10) 38
Children on the home front during the Second World War in Australia (Years 5–12) 38
Bombing of Darwin (Years 5–12) 39
Establishing Australia’s national capital, 1899-1926 (Years 5–12) 39
The Australian navy in action (Years 5–12) 39
Women on the home front in the Second World War (Years 5–12) 40
Communicating by telephone in the past (Years 5–12) 40
Australian servicewomen in the Second World War (Years 5–12) 40
Māori and Pākehā (Europeans) during the colonial period in New Zealand (Years 5–12) 41
Charles Perkins and the Freedom Ride (Years 5–12) 41
The 1967 referendum (Years 5–12) 41
Shearing (Years 5–12) 42
Epidemic diseases in 19th- and 20th-century Australia (Years 5–12) 42
Repatriation of First World War veterans (Years 5–12) 42
First contact (Years 5–12) 43
Policy and law affecting Indigenous Australians over time (Years 5–12) 43
Overland Telegraph Line (Years 5–12) 43
Sending a telegram (Years 5–12) 44
Enlistment and recruitment in the First World War (Years 5–12) 44
Conscription referendums of 1916 and 1917 (Years 5–12) 44
Queen Elizabeth II (Years 5–12) 45
Great Depression in Australia (Years 5–12) 45
White Australia policy (Years 5–12) 45
Native title (Years 5–12) 46
Women's suffrage in New Zealand (Years 6–9) 46
Australian service personnel and the Vietnam War (Years 6–12) 46
Trade unions in Australia (Years 6–12) 47
Australian attitudes to the war in Vietnam (Years 6–12) 47
Australian women and the First World War (Years 6–12) 47
Australian colonial involvement in the Sudan conflict of 1885 (Years 6–12) 48
Internees and prisoners-of-war in Australia during the Second World War (Years 6–12) 48
John Curtin, Australia's wartime prime minister (Years 7–12) 48
Robert Menzies (Years 7–12) 49
Human cost of war (Years 7–12) 49
Asylum seekers in the 1990s and 2000s (Years 8–12) 49
 Australians and the Korean War (Years 8–12) 50
Australia and the atomic age, 1950–69 (Years 8–12) 50
Japanese threat to Australia, 1941–43 (Years 8–12) 50
Petrov affair (Years 8–12) 51
Fear of communism in Australia in the 1960s (Years 9–12) 51
US-Australian relations (Years 9–12) 51

Mathematics collections 52
Telling time (Years 0–2) 52
Seeing shapes (Years 0–2) 52
Exploring addition and subtraction (Years 0–2) 52
Exploring division and multiplication (Years 2–4) 53
Introducing chance – Years 2 to 4 (Years 2–4) 53
Patterns and sequences (Years 2–4) 53
Mental calculation strategies – multiplication and division (Years 2–6) 54
Building basic fraction skills (Years 2–6) 54
Mental calculation strategies – addition and subtraction (Years 2–6) 54
Visualising two-dimensional and three-dimensional shapes (Years 4–6) 55
Data – Years 5 and 6 (Years 5–6) 55
Financial maths – purchasing and pricing (Years 5–8) 55
Introducing chance – middle years (Years 5–9) 56
Data – Years 7 to 9 (Years 7–9) 56
Comparative pricing using calculations and linear graphs (Years 7–9) 56
Graphing functions (Years 9–12) 57
Introducing to differential calculus (Years 10–12) 57

Science collections 58
Energy and forces – early years (Years 0–4) 58
Australian animals (Years 0–4) 58
Water quality and use – early years (Years 0–4) 59
Weather – early years (Years 0–4) 59
Mini-beasts (Years 0–7) 59
Native Australian insects (Years 0–12) 60
Poisonous animals (Years 3–12) 60
Threatened Australian animals (Years 3–12) 60
Pest animals (Years 3–12) 61
Energy – middle years (Years 4–10) 61
The night sky (Years 4–12) 61
Animal research (Years 4–12) 62
Animal behaviours (Years 4–12) 62
Circuits – upper primary (Years 5–7) 62
Respiratory system (Years 5–8) 63
Digestive system and diet (Years 5–8) 63
Circulatory system (Years 5–8) 63
Immune system (Years 5–8) 64
Musculo-skeletal and nervous systems (Years 5–8) 64
Processes of plant growth (Years 5–8) 64
Meet a scientist (Years 5–10) 65
Shaping the Earth's surface (Years 5–10) 65
Infections (Years 5–12) 65
Cells (Years 5–12) 66
Extinct Australian animals over time (Years 5–12) 66
Volcanoes (Years 6–10) 66
Tsunamis (Years 6–10) 67
Earthquakes (Years 6–10) 67
Formulating hypotheses (Years 7–10) 67
Gene technology (Years 8–12) 68
Circuits – middle secondary (Years 9–10) 68
Motion and forces (Years 9–10) 68
Energy – senior years (Years 10–12) 69
Constant acceleration (Years 11–12) 69
Projectiles (Years 11–12) 69
Newton's laws (Years 11–12) 70
Simple harmonic motion (Years 11–12) 70
Circular motion (Years 11–12) 70
Introduction

The Learning Federation's Collections provide selections of quality-assured resources in themes to support topics and themes in the key curriculum areas of the Australian curriculum for years P–12. A Collection may include:

- Interactive multimedia resources such as learning and assessment objects
- Audio files including speeches, songs, radio broadcasts and interviews
- Moving images from documentaries, feature films, newsreels and television programs
- Still images such as photos, artwork, posters, maps, documents and cartoons
- Units of work or Teacher ideas which demonstrate how teachers have integrated digital resources into their teaching and learning activities

Collections present the resources in three ways – on a carousel, on a 'View all' page and in expandable categories on individual resource pages – and provide links to each of the resources included in the collection.
This catalogue contains details of the Collections developed to date.

Each Collection featured in the catalogue includes a brief description of the ideas and themes explored and an image highlighting one of the resources featured.

**Accessing and viewing the content**
Government and non-government education authorities in each Australian state and territory and in New Zealand have responsibility for facilitating access to the pool of digital content. Full details about how to access the content, including the necessary technical and software requirements for viewing it, can be found at:

www.ndlrn.edu.au

**Warning:** *Please be aware that this catalogue and TLF digital content may contain references to Aboriginal and Torres Strait Islander people who may have passed away.*
**Collections**

**English and literacy collections**

**Explore letters, words and text**
R10720 – Years 0–2

This collection of 16 interactive learning objects, such as L9481 *Letter detective: shops: five activities*, supports early years learners to recognise upper- and lower-case letters, words and sentences and to create and sequence multimodal texts. The selected items in the collection are representative of others in their series, and they provide strong visual and audio support for the literacy activities. It is recommended that teachers investigate other learning objects in the same series.

**Create interesting writing**
R10721 – Years 3–6

This collection of 16 digital curriculum resources provides activities and ideas to develop students' writing skills. It includes focused interactive activities, such as L8741 *Wonderful words, creative stories: beach*, to improve students' writing and to help them to engage audience interest through the use of effective adjectives, adverbs, verbs, metaphors, similes and plot structures. The collection also includes some short animated video clips to assist in stimulating students' ideas for creative writing.

**Listening skills**
R10717 – Years 3–6

This collection of 19 digital curriculum resources, including R6679 *Listening to the wireless from 'School in the mailbox', 1946*, provides a range of activities to support the development of listening skills, including exploring different listening behaviours in different contexts, listening for information and listening to environmental sounds. The collection includes opinions, reflections, personal accounts and narratives that provide rich resources for listening activities. Students are also supported to consider historical differences in listening behaviours and potential cultural sensitivities when responding to questions.
Growing up in Australian film
R10718 – Years 5–8

This collection of 16 digital curriculum resources explores depictions of growing up in Australian film. The collection is organised into six categories: developing a moral sense, experiencing discrimination, bullying, family trials, dreams, and schooling. Some pieces are more appropriate to year 5 and others to year 8. The collection includes clips from feature films (such as R8497 The Getting of Wisdom, 1978: ‘What have those little monsters been telling you?’) documentaries, television series and animations.

Gender in advertising
R10722 – Years 7–12

This collection of 13 digital curriculum resources, including video clips and images, comprises Australian advertisements spanning 40 years from 1925 to 1966. In the advertisements for a range of predominantly domestic products, such as R2995 A woman in her all-electric kitchen, Kiewa, 1945, men and women are portrayed as taking on specific and distinctive roles that appear to be defined according to gender. This collection can be used as a starting point for exploring gender in advertising in historical and contemporary contexts.

Poetry
R10792 – Years 7–12

This collection of 11 digital curriculum resources includes a selection of poems authored by young poets under 25 years of age, and three learning objects, including L7942 Poetry anthology: haiku, sonnet, cyber, that explore the conventions of several poetic forms and provide opportunities for students to compose their own poems and create anthologies. The forms analysed are haiku, sonnet, rhyming couplet, villanelle, ghazal, concrete and cyber poems.
**The writer's craft**
R10793 – Years 7–12

This collection of ten digital curriculum resources, including R9793 *Colleen McCullough outlines what makes a good writer, 2008*, focuses on prominent Australian writers speaking about their craft. The writers discuss what they consider to be essential ingredients for creating successful works, including research, discipline, memory and imagination. The items cover the perspectives of fiction and poetry authors including Colleen McCullough, David Malouf, Peter Carey, Oodgeroo Noonuccal, May O'Brien and Bob Ellis.

**Visual literacy – reading images**
R10719 – Years 7–12

This collection contains 25 digital curriculum resources for visual analysis. They cover a range of periods and themes and are arranged in six sections: iconic images, photographs, cartoons, advertisements, posters, and paintings. These items, including R3991 *'Sunbaker', 1937*, provide opportunities to explore the codes and conventions of visual semiotics relating to colour, line, shape, form, perspective, position and juxtaposition, focus, space, lighting, repetition, balance, composition, contrast, layout and framing.

**Adolescence in Australian film**
R11094 – Years 9–12

This collection of 18 digital curriculum resources, including R9275 *Looking for Alibrandi, 1999: 'Nonna's spy ring'*, explores aspects of adolescence as represented in Australian film, and comprises clips from feature films and television series. The collection is arranged according to six themes: discrimination, identity, sexuality and relationships, the future, bullying, and the desire for independence. The challenging and sensitive aspects of these items make them appropriate for exploration with senior students.
History collections

Horse transport in Australia
R10820 – Years 0–10

This collection of 21 digital curriculum resources focuses on how horses were used to transport people in 19th- and 20th-century Australia. It is organised into six categories – riding horses; horsedrawn carriages; coaches; carts and wagons; horsedrawn trams; and horsedrawn transport in action. The collection contains paintings, photographs such as R9657 Riding a horse to school, 1928, images of various carriages, archival film footage and a learning object about Cobb and Co.

Horse power in rural Australia
R10822 – Years 0–10

This collection of 23 digital curriculum resources, including R10607 A drover rounds up horses, focuses on the work of stock and draught horses in rural Australia in the 19th and 20th centuries. It is organised into five categories – stock horses; ploughing; harvesting; carting; and propelling. The painting, historical photographs and archival and feature film footage in this collection reveal the importance of the horse to Australia’s pastoral, farming, forestry and mining industries.

Washing, sorting and baling wool
R11352 – Years 0–12

This is a collection of 14 resources, including R3945 Fleece on a skirting table, about work in and around the woolshed other than shearing. The collection explores washing wool; sorting, rolling and classing wool; baling wool; counting out sheep; and the woolshed in full operation. It contains historical photographs; images of tools and equipment; newsreel, documentary and television footage; and an interactive learning object suitable for young children.
Heritage sites in Australia
R10818 – Years 0–12
This is a collection of 25 digital curriculum resources focusing on 26 places on the National Heritage List in Australia. Some have been listed for natural values, others for historical values and still others for cultural values. Ten of the sites shown have also been inscribed on the World Heritage List for both natural and cultural values. The collection includes photographs, film footage and interactive learning objects.

Horse power in urban Australia
R11345 – Years 0–12
This collection of 12 digital curriculum resources, including R2767 *Levelling land at Parliament House, 1926*, focuses on how horses were used in Australian cities and towns in the 19th and 20th centuries. It is organised into three categories – horses working in city streets; hauling and carting; and levelling and landscaping. The sketch, historical photographs and archival film footage in this collection reveal the importance of the horse to Australia's cities and towns, not only for transporting goods but also for building new streets and suburbs.

Camel and donkey transport in outback Australia
R11331 – Years 0–12
This collection of 16 digital curriculum resources focuses on the role of camels and donkeys in transporting goods and people throughout outback Australia in the late 19th and early 20th centuries, until about 1940. The collection is organised into three categories – camel transport; donkey transport; and camel and donkey teams. The collection contains photographs (such as R5743 *Camel drinking from a gnamma, 1909*), archival film footage and a learning object that enables students to investigate transport and communication services in the outback.
Early cars and trucks in Australia
R10821 – Years 0–12

This collection of 21 digital curriculum resources focuses on cars and trucks in Australia during the first three decades of the 20th century. The collection contains images of actual vehicles in museum collections as well as photographs and archival footage of cars and various types of trucks in action, including R2451 *Melbourne street scene in 1921*. The collection includes several traffic scenes that show cars and trucks sharing city streets with horse-drawn vehicles, bicycles and trams.

Bicycles as a form of transport in Australia
R11330 – Years 0–12

The golden age of bicycles began in the 1890s when innovations such as pneumatic tyres and cable-pull brakes made bicycles more comfortable and safe. This collection of 12 digital curriculum resources, including R6368 *Penny-farthing bicycle, c1888*, is organised into five categories – velocipedes; penny-farthing bicycles; travelling from Perth to Kalgoorlie by bicycle; bicycles on city streets in the early 20th century; and Hubert Opperman's bicycle rides across Australia. The collection contains photographs, archival footage and an interview.

Eureka Stockade
R10787 – Years 0–12

This is a collection of 11 digital curriculum resources, including R4841 *Administering the oath of allegiance, Eureka Stockade, 1854*, focusing on the attack on the Eureka Stockade that took place at the Eureka diggings on the Ballarat goldfields on 3 December 1854. It is organised into three categories: miners' resentment of the gold licence; events leading to the Stockade; and the Stockade itself. This collection includes contemporary images, documentary clips featuring dramatic re-enactments, and a learning object.
Dismissal of prime minister
Whitlam, 1975
R10616 – Years 0–12

This is a collection of 12 digital curriculum resources focusing on one of the most controversial events in Australia’s constitutional history - the dismissal of prime minister Gough Whitlam by the governor-general Sir John Kerr on 11 November 1975. The collection includes important historical documents, news footage, re-enactments, political advertisements and photographs, such as R3463 Dismissal of Whitlam government, Canberra, 1975, to give a picture of the events leading to the dismissal, the events on the day, and the reactions in the weeks that followed.

Constructing the Snowy Mountains Scheme
R11324 – Years 3–10

This collection of 24 digital curriculum resources focuses on the work of building the Snowy Mountains Hydro-electric Scheme. It is organised into seven categories: preparing the sites; bringing up supplies; drilling the tunnels; constructing the dams; building the power stations; constructing pressure shafts; and creating new towns. The collection contains archival photographs, such as R2892 Eucumbene diversion tunnel, 1955, and film footage.

Murray-Darling river system over time
R11325 – Years 3–12

This collection of 18 digital curriculum resources provides a historical perspective on Australia’s greatest river system. The collection is divided into seven categories - travelling the Murray-Darling; the headwaters of the Murray; Hume Reservoir; the Murray meets the sea; struggles for control of the Murray-Darling; irrigation practices over time; and river red gums and salinity. It includes photographs, paintings, cartoons, and classic film footage by renowned filmmaker John Heyer.
**Drovers**
R11358 – Years 3–12

This collection of eight digital curriculum resources, including R6223 *Droving sheep in Hay, 1956*, focuses on the work of drovers in herding cattle and sheep over long distances in 19th- and 20th-century Australia. It is organised into two categories: at work; and the drover's life. The collection contains paintings, photographs and film footage, including footage of a drover who describes moving and grazing sheep on the 'long paddock' (the roadside).

**Shepherds**
R11359 – Years 3–12

This collection of nine digital curriculum resources focuses on the work of shepherds in 19th-century Australia before the introduction of fenced paddocks made their job redundant. The collection is organised into six categories: watching the flock by day; moving sheep into the fold for the night; huts and watchboxes; caring for the lambing ewes; bringing the flock in for shearing; and the shepherd's work idealised in art. The collection is composed entirely of paintings.

**Transportation by bullock team**
R11360 – Years 3–12

This collection of 15 digital curriculum resources focuses on the use of bullocks for transporting heavy loads in 19th- and 20th-century Australia. It includes R3012 *Bullock team and horses at Cobargo, c1900–10* and looks at hauling timber; 'bringing down' the wool; bullocks on the farm and on the road; the practice idealised in art; and an early mechanised alternative. The collection includes paintings, photographs and film footage, showing teams of between one and five pairs of bullocks.
**Federation celebrations – inauguration of a new nation**  
R10804 – Years 3–12

This collection of 21 digital curriculum resources depicts the events in early January 1901 that celebrated the inauguration of Federation in Australia. The collection is organised into six categories: the program of Federation celebrations in Sydney; Federation decorations and illuminations in Sydney streets; celebratory arches over Sydney streets; the Great Inaugural Procession; celebrations in Centennial Park; and celebrating the inauguration of Federation around Australia. It includes archival film footage, a learning object and images such as R3193 *Invitation to the inaugural Commonwealth celebrations, 1901.*

**Convict artists of New South Wales**  
R11438 – Years 3–12

This is a collection of 22 digital curriculum resources focusing on three convict artists who were transported to New South Wales between 1791 and 1814 – Thomas Watling, Richard Browne and Joseph Lycett. The collection reflects the subjects that interested the artists in the new colony and includes a scene of the Sydney settlement, depictions of buildings near Parramatta, watercolours and engravings of the lifestyles of local Indigenous people, and illustrations of the colony's plants and animals including R3609 *The mountain pheasant (lyrebird).*

**'Bound for Botany Bay' – transportation of convicts to New South Wales**  
R11437 – Years 3–12

This is a collection of 11 digital curriculum resources focusing on the transportation of convicts to the colony of New South Wales. The collection is organised into four categories - the hulks; the First Fleet; the colony's penal stations; and items forming part of the uniforms believed to have been worn by convicts in NSW. The resources consist of sketches, paintings and artefacts from the time including R3177 *Convicts at work, Norfolk Island, 1840s.*
**Voyages of discovery by the peoples of the Pacific**
R11439 – Years 3–12

This is a collection focusing on the voyages of discovery made by the peoples of the Pacific. The collection is organised into four categories – Pacific seafarers; Kupe the explorer; ocean-going craft; and evidence of the migration of peoples in the Pacific. It includes interactive learning objects, artworks, artefacts and images, such as R5113 'Crowd in the water, Opononi', 1956.

![Image of Pacific explorers](Reproduced courtesy of the Museum of New Zealand Te Papa Tongarewa. Photograph by Eric-Lee Johnson.)

**European exploration of the Pacific**
R11440 – Years 3–12

This is a collection of 21 digital curriculum resources focusing on Dutch, English and French exploration of the Pacific. It is organised into nine categories – European knowledge of the Pacific in the mid 17th century; Abel Tasman's voyages; James Cook; Cook's first voyage; his second voyage; his third voyage; Jean de Surville's voyage; the voyage of the Beagle; and the voyage of the Fly and Bramble. The collection includes interactive learning objects, artefacts and maps such as R5350 Historical map of the world, 1646.

![Image of world map](Reproduced courtesy of National Library of Australia.)

**Contact between the expeditions of Captain James Cook and the indigenous peoples of the Pacific**
R11441 – Years 3–12

This is a collection focusing on relations between members of James Cook's three voyages to the Pacific and the indigenous peoples of the region. It is organised into six categories - James Cook; Tupaia; the Māori of Queen Charlotte Sound; gifts; ethnographical collecting by expedition members; and relations between Hawaiian people and Cook. The collection includes an interactive learning object, artworks and images of items presented or collected during the voyages.

![Image of Captain James Cook](Reproduced courtesy of the Museum of New Zealand Te Papa Tongarewa. Artwork by John Webber.)
Australia's first federal parliament
R11442 – Years 3–12

This is a collection of 19 digital curriculum resources focusing on Australia's first federal parliament, which sat in Melbourne from May 1901 until October 1902. The collection is organised into four categories – opening the first federal parliament; the first prime minister; the first Barton ministry; and the parliament's legislative program. The collection includes R6268 Invitation to the opening of Federal Parliament, 1901.

Life on the Victorian goldfields
R11436 – Years 3–12

This is a collection of 19 digital curriculum resources focusing on life on the Victorian goldfields. The collection is organised into four categories: conditions on the goldfields; accommodation and food; making a living; and news and entertainment. It includes paintings and sketches; interactive learning objects, such as L680 Gold rush: level 2, and a set of teacher ideas on how to use them; documentary footage; and video footage of a museum curator discussing a quilt and its connection to goldfields mortality.

British migration to Australia in the 20th century
R11318 – Years 3–12

This is a collection of 23 digital curriculum resources focusing on British immigration to Australia from the 1920s to the 1960s. It is organised into five categories - British migration in the interwar years; British migration after the Second World War; British migration in the 1950s; British migration in the 1960s; and child migrant schemes. The collection includes posters, photographs, film footage, documents, a cartoon and an interactive learning object, L6362 This house: settling in Ainslie.
Italian migration to Australia in the 20th century
R11319 – Years 3–12

This is a collection of 18 digital curriculum resources, including R2480 A migrant woman from Italy, 1984, focusing on Italian immigration to Australia from the 1920s to the 1980s. It is organised into five categories - Italian migration before the Second World War; arriving in Australia in the post-War years; marriage and family life in Australia; Italian Australians in the 1980s; and the portrayal of Italian migrants in Australian feature films. The collection includes photographs, film footage and an interactive learning object.

Migration to Australia and New Zealand before the gold rushes
R11650 – Years 3–12

This is a collection of 25 digital curriculum resources (including R2035 New Zealand Company flag) focusing on migration to Australia and New Zealand up to the mid-1850s. It contains paintings, engravings, photographs, artefacts, a narrative cartoon, a learning object, and explanatory video footage. The collection is organised into eight categories - migrants from the Pacific; from Great Britain; from Germany; from Greece; female migrants; Jewish migrants; schemes encouraging migration; and items migrants used or brought on the voyage.

Gold rushes in Victoria
R11389 – Years 3–12

This is a collection of 25 digital curriculum resources, including M000208 Model of the Welcome Nugget, 1858-85, focusing on the rich goldfields of Victoria in the second half of the 19th century. The collection is organised into four categories: rushing to the goldfields; working a claim; success on the goldfields; and failure. It includes paintings and sketches; interactive learning objects; images of nuggets, models and a game; documentary footage and footage of museum curators discussing prized exhibits.
Chinese miners on the Australian goldfields
R11320 – Years 3–12

This collection of 12 digital curriculum resources focuses on Chinese prospectors and miners on the Australian goldfields. It is organised into four categories - travelling to the goldfields; living on the goldfields; at work on the goldfields; and opposition to Chinese miners. The collection includes photographs; artworks and archival film footage from the 1920s and 1930s.

Leisure in 1950s Australia
R11651 – Years 3–12

This is a collection of 23 resources about leisure activities in the 1950s. The collection focuses on ten categories - going to the beach; following cricket; going to the football; watching tennis; dancing; listening to the radio; going on holidays; having fun in the snow; going to parks and the annual show; and leisure activities in a regional city. It includes photographs, posters, newsreel footage and the opportunity to examine a 1950s caravan, R10687 Propert caravan, 1956.

Rabbit plagues in 19th- and 20th-century Australia
R11561 – Years 3–12

This is a collection of 17 digital curriculum resources focusing on the rabbit problem in Australia between their introduction in the mid-19th century and the end of the 20th century. It is organised into three categories - rabbits in plague proportions; attempts to control rabbits; and the uses made of rabbits. It includes photographs, artefacts, documentary and cartoons such as R9214 Rabbit fence cartoon, 1884.
**Australians at the beach, pre-1930**  
R11563 – Years 3–12  
This is a collection of 24 digital curriculum resources focusing on Australians at the beach before 1930. It includes paintings, photographs and swimsuits along with numerous examples of archival film footage showing people enjoying the beach in the early 20th century. The collection is organised into periods - early 1800s, 1890s, 1900-19 and the 1920s; and into themes - lifesavers and swimsuits across the periods.  

Reproduced courtesy of National Film and Sound Archive.

**Environmental activism in Australia**  
R10817 – Years 3–12  
This is a collection of 16 resources about environmental activism in Australia and some responses to it. The collection is organised into seven categories focusing on the tactics used by those with various viewpoints on an issue - seeking publicity; posters and illustrations; marches; sit-ins and occupations; blockades; rallies and demonstrations; and protesters arrested and going to gaol. The collection contains film footage, photographs, an interactive learning object and an interview.  

Main image reproduced courtesy of The Wilderness Society.

**People of the Snowy Mountains Scheme**  
R11323 – Years 3–12  
This collection of 22 digital curriculum resources, including R2884 Snowy Mountains Scheme worker, 1957 – asset 3, focuses on the approximately 20,000 people who, between 1949 and 1974, worked on the Snowy Mountains Hydroelectric Scheme. The collection is organised into eight categories: visionaries and planners; joining the Snowy workforce; cultural diversity on the Snowy; 'Little Norway'; US experts; office workers; living in camps; and recreation. It contains interactive learning objects and contemporary photographs and film footage.  

From the collection of the National Archives of Australia. Photograph by Australian News and Information Bureau.
**Women's suffrage in Australia**
**R10504 – Years 3–12**

This collection of 20 digital curriculum resources, including R10748 *Petition for equal voting rights, 1897*, is about the struggle of women to achieve the vote in Australia in the 19th and 20th centuries. It includes interactive learning objects and images about the women involved in suffrage in South Australia, Queensland, Western Australia, Victoria and New South Wales. Cartoons reveal some of the ways that the suffragists were ridiculed and opposed, and other images show some of the tactics that suffragists used.

With permission of Women's Christian Temperance Union of Australia Ltd. From the collection of the National Archives of Australia.

**Vietnamese refugees and immigrants**
**R11322 – Years 3–12**

This collection of 24 digital curriculum resources, including R3242 *Vietnamese refugees at sea, 1979*, explores fleeing Vietnam by boat; the voyage of the Hong Hai; arriving as migrants; living in Australia in the 1970s and 80s; and Vietnamese refugees and the arts. The collection contains interactive learning objects, photographs, artefacts, artworks and feature film footage. A particular focus of the collection is the refugee boat Hong Hai that, captained by Truong-van Soi, reached Australia in 1978.

From the collection of the National Archives of Australia. Photograph by Department of Immigration and Ethnic Affairs.

**Anzacs and Gallipoli**
**R10695 – Years 3–12**

This collection of 21 digital curriculum resources about the Australian and New Zealand Army Corps (Anzacs) at Gallipoli includes R9142 *With the Dardanelles Expedition: Heroes of Gallipoli – clip 8*. It explores the landing; maintaining the beachhead and supplying the men at the front; Simpson and his donkey; the May truce between the Anzacs and the Turks; the August Offensives; the youngest casualty; and remembering the Anzacs and promoting the legend.

Reproduced courtesy of Australian War Memorial. Photography by Ellis Ashmead-Bartlett and Ernest Brooks.
**Children and migration to Australia**
R10700 – Years 3–12

This collection of 20 digital curriculum resources is about children who migrated to Australia, either with their families or on their own, predominantly during the 20th century. Footage and photographs from the time, including R1320 *Future citizens, 1947*, show the children arriving in Australia and experiencing a migrant reception centre if they were with their parents, or living in an orphanage if they were on their own. Documents reveal something of the conditions during their journey to Australia.

**Travelling to the Australian goldfields**
R10506 – Years 3–12

This collection of 16 digital curriculum resources explores gold rushes in the mid-19th century; Victorian and New South Wales goldfields; Queensland goldfields; and Western Australian goldfields. Learning objects, film clips, contemporary illustrations and photographs provide evidence of gold seekers making their way to the Australian diggings from various parts of the world.

**Gold rushes in New South Wales**
R11350 – Years 3–12

This collection of 12 digital curriculum resources, including R6166 *Hargraves's gold mining cradle, 1851*, explores the first discovery of gold; Australia's first goldfield at Ophir; bringing the gold to Sydney; and goldfields in NSW, 1860–81. The collection includes paintings, sketches, artefacts and photographs. Its highlight is a set of lithographic prints of the Ophir diggings by George French Angas showing scenes of prospectors who had taken part in Australia's first gold rush.
Japanese, Indonesian and Malay pearl divers in Broome
R11321 – Years 3–12

This collection of seven digital curriculum resources focuses on Japanese, Indonesian and Malay pearl divers and workers in northern Western Australia during the first half of the 20th century. It is organised into three categories – diving for pearl shells; working the pearl shells; and the lives of Japanese and Indonesian pearl divers. While the collection includes a photograph (R3465 Sorting mother-of-pearl shells, Broome, c1953) and a document, its main feature is historical film footage taken on board pearling luggers and in Broome.

Gold rushes in Queensland
R11116 – Years 4–9

The first significant gold rush in Queensland occurred in 1858, and rushes continued throughout the 19th and into the 20th centuries. This collection of eight digital curriculum resources is organised into three categories – early gold rushes in Queensland; gold rushes at Charters Towers and Palmer River; and the Mulgrave River goldfield. The collection includes photographs, sketches, including R8175 Chinese men on the road to the Palmer River gold field, 1875, and a document.

Convicts in Tasmania
R10815 – Years 4–9

Convicts were transported to Van Diemen's Land (Tasmania) from 1803 until 1853, and many were still serving their sentences in the 1870s. This multimedia collection of 16 digital curriculum resources includes sketches, prints, photographs, film footage, a learning object and a traditional song. It is organised into four categories – transported to Van Diemen's Land; the convict system in Tasmania; punishments; and Port Arthur.
Charles Kingsford Smith
R11335 – Years 4–10

Charles Kingsford Smith (1897–1935) is Australia’s most renowned aviator, the holder of more ‘firsts’ than any other. This collection of 24 digital curriculum resources about his life and achievements explores his war service and concluding with the amazing trans-Tasman attempt of 1935. The collection includes photographs (such as R4900 Charles Kingsford Smith and crew, 1928), historical and re-enacted film footage, songs and broadcasts. A particular focus of the collection is the first flight across the Pacific in 1928.

Landmarks in aviation
R10728 – Years 4–10

This collection of 23 digital curriculum resources comprising mostly archival footage and images explores aviation from a historical perspective. It looks at the first flight by box kite; the first controlled powered flights; flying across the English Channel; the first flight from England to Australia, 1919; the first flights across the Pacific; record-breaking flights from England to Australia; and ornithopters, autogiros and helicopters. The extensive historical footage, including R2068 Kingsford Smith lands in Brisbane – asset 2, reflects the fascination flying held for early filmmakers.

Early years of the Flying Doctor Service
R11337 – Years 4–10

This collection of seven digital curriculum resources focuses on the Flying Doctor Service from its first year in 1928 to the Service’s first 40 years of operation. The collection is organised into three categories – the first year of operations; contacting the Flying Doctor Service; and the Flying Doctor Service at work in the 1960s. The collection comprises contemporary photographs, such as R7527 Flying Doctor treating a patient, 1969.
Steam transportation in Australia
R10816 – Years 4–10

Steam generated the principal form of mechanical power for Australia’s transport systems from the second half of the 19th century until the widespread adoption of the internal combustion engine in the 20th century. This collection of 24 digital curriculum resources explores steam trains; river steamers; steam punts and ferries; coastal steamers; steam cars; and steam trams.

Sydney Harbour Bridge
R10788 – Years 4–12

This collection of 23 digital curriculum resources is organised into six categories – crossing the Harbour before the Bridge was built; building the Bridge; construction of the Bridge as a stimulus for artistic creativity; opening the Bridge; the Bridge in use in the 1930s; and the Bridge in popular culture. It contains predominantly archival newsreel and home movie footage as well as audio files, paintings and photographs including R3352 Closing the arch, Sydney Harbour Bridge, 1930.

Depicting Australia’s cultural diversity
R10819 – Years 4–12

This is a collection of 18 digital curriculum resources focusing on how Australia’s cultural diversity was depicted at various times in the 20th and 21st centuries. The collection is organised into four categories - depictions in the 1950s and before; the 1960s and 70s; the 1980s and 90s; and the 21st century. It includes newsreel and documentary footage, photographs, interactive learning objects, and artefacts celebrating cultural diversity.
William Barak
R10906 – Years 4–12

This collection of 11 digital curriculum resources focuses on William Barak, a significant Indigenous leader and artist in Victoria in the 19th and early 20th centuries. It is organised into four categories - William Barak depicted over three decades; his role as leader of the people living at Coranderrk Aboriginal Reserve; artistic works; and Barak demonstrating pride in culture. The collection includes photographs and Barak's own paintings, but its centrepiece is an interactive learning object about his life.

WARNING
Please be aware that this digital curriculum resource may contain references to Aboriginal and Torres Strait Islander people who may have passed away.

Oodgeroo Noonuccal
R10907 – Years 4–12

This collection of 13 digital curriculum resources focuses on Oodgeroo Noonuccal (1920-93), renowned Indigenous poet, activist and artist. It is organised into four categories - her life; role as an activist; fame as a poet; and emergence as a visual artist. The collection includes photographs, a pamphlet, a leaflet, interviews, the cover of a Noonuccal publication and some of her artworks. One highlight of the collection is an interactive learning object about her work, achievements and contributions.

Logging in 19th- and 20th-century Australia
R11073 – Years 4–12

This collection of 25 digital curriculum resources, including R3557 Hauling karri, 1966, focuses on work in the timber industry in 19th- and 20th-century Australia. It contains five sections – felling; splitting and chopping; transporting logs; at the sawmill; and life in a mill town. The collection includes artworks, photographs and 13 clips from archival film footage – an indication of the fascination cinematographers had for the labour of men and machines in the forest.

From the collection of the National Archives of Australia. Photograph by Australian News and Information Bureau.
Doug Nicholls
R10908 – Years 4–12

This collection of seven digital curriculum resources focuses on significant Indigenous leader and activist Pastor Doug Nicholls (1906-88). It is organised into three categories - his involvement with the 1938 Day of Mourning, activism in the federal sphere, and appointment as governor of South Australia. The collection contains photographs, a document inspired by Nicholls and an interactive learning object about the Day of Mourning protesters.

Whaling in 19th- and 20th-century
Australia and New Zealand
R11072 – Years 4–12

This collection of 20 digital curriculum resources, including R6105 Tabua (ceremonial whale tooth), c1800s, focuses on whaling and whalers in Australia and New Zealand. It contains five sections – whalers in action; processing carcasses; tools and equipment; whale products; and Indigenous Australian, Fijian and Māori peoples and whales. The collection includes paintings, photographs, images of tools and artefacts, a documentary clip and a picture trail with 15 relevant images.

Growing wheat in 19th- and
20th-century Australia
R11074 – Years 4–12

This collection of 15 digital curriculum resources focuses on the work involved in growing wheat in 19th- and 20th-century Australia. It contains five sections – clearing land; ploughing and sowing; harvesting; the Sunshine harvester; and the effect of drought. The collection includes photographs, images of machinery (such as R4552 Sunshine header harvester) and historical film footage. One highlight is a 1930s clip that presents the wheat industry as a patriotic force for the achievement of the nation's destiny.
Betty Campbell joins the Women's Land Army
R11386 – Years 4–12

This collection of 24 digital curriculum resources chronicles the experiences of Betty Campbell, who joined the Australian Women's Land Army as an 18-year-old from the city during the Second World War. The collection is organised around eight of Campbell's postings – four in the field and four on the staff – from 1942 to 1945. The photographs, including R4014 *Staff members of Land Army in Sydney, 1945*, reveal the work of food production undertaken by the Land Army and the living conditions of the servicewomen.

Gold rushes in Western Australia, 1890s
R11115 – Years 4–12

Gold was discovered at Coolgardie in 1892 and Kalgoorlie in 1893, and the finds sparked huge rushes to Western Australia. This collection of 25 digital curriculum resources focuses on these rushes and is organised into five categories: the rush to Coolgardie; Paddy Hannan and Kalgoorlie; prospecting for gold; life on the goldfields; and water shortages on the goldfields. It includes R6597 *The rush to Coolgardie, 1894*.

Explorers in colonial Australia
R11649 – Years 4–12

This is a collection of 22 digital curriculum resources focusing on the exploration of Australia during the colonial period. The collection is organised into eight categories - colonists' ignorance of Australia's geography; exploring the Australian coast; crossing the Blue Mountains; exploring south-west of Sydney; exploring the Murray-Darling and the centre of the continent; crossing the continent from south to north; seeking a land route to Western Australia; and exploring east from Perth.
Federation celebrations –
opening of the first
Parliament of Australia
R11117 – Years 4–12

The opening of the first Australian Parliament and the royal visit of the Duke and Duchess of Cornwall and York in May 1901 were accompanied by widespread celebrations in Melbourne. This collection of 20 digital curriculum resources about the events of that time includes interactive learning objects, such as L673 Citizens’ Arch: Federation celebrations, contemporary photographs, invitations and artworks. It is organised into five categories: the opening of the first parliament; symbolism in the celebrations; processions; ceremonial arches; and fireworks and illuminations.

Pacific Islander indentured
labourers
R11565 – Years 4–12

This is a collection of 21 digital curriculum resources focusing on the thousands of Pacific Islanders brought to Queensland and northern New South Wales to work on plantations in the late 19th century. The collection is organised into three categories - recruitment of labourers; working and living conditions; and the end of Pacific Islander indentured labour in Australia. It contains photographs, portraits, drawings, cartoons, such as R9352 ‘Barton’s black labour policy’, 1901, and rare film footage.

Migration of displaced
persons to Australia,
1947-53
R10905 – Years 4–12

This collection of 20 resources focuses on over 170,000 European refugees who came to Australia between 1947 and 1953. It is organised in four categories - the Displaced Persons’ program; concentration camp survivors; what people brought with them; arriving in Australia; and new lives in Australia. The collection includes photographs, video, artefacts and documents. Two highlights are a learning object about migrants from Holland and Latvia and an interview with a migrant from Poland.
Equal pay for equal work
R10903 – Years 4–12

This collection of 22 resources, including R9405 Women welding aircraft components, 1943, focuses on the struggle to achieve equal pay in Australia. The collection is organised in eight categories – less pay for women; less pay for Indigenous Australians; leaders in the struggle; the Victorian tailoresses’ strike of 1882-83; the Torres Strait pearl divers’ strike of 1936; the Pilbara stockmen's strike of 1946-49; the 1966 equal pay decision for Indigenous pastoral workers; and women achieve equal pay in the 1970s.

Indigenous Australians and the First and Second World Wars
R10904 – Years 4–12

This collection focuses on the Indigenous men and women who enlisted in the military services and contributed to the domestic war effort in Australia during two world wars. The collection, featuring R9404 Two Japanese prisoners of war with their Aboriginal captors, is organised in three categories – service in the First World War; service in the Second World War; and participation in the war effort. It contains photographs, rare film footage and enlistment documents.

Wurundjeri people and the settlers of Port Phillip and beyond
R11298 – Years 5–9

This collection of 12 digital curriculum resources, including R7978 Portrait of William Barak by F A Fuller, 1885, is organised into four categories – first contact with John Batman; Simon Wonga; William Barak; living at the Coranderrk Reserve; and the threatened closure of Coranderrk Reserve. The collection focuses on the history of relations between the Wurundjeri people and the settlers of Port Phillip and beyond from 1835 until the 1880s.
Ngarrindjeri people and the settlers of the lower Murray River area in the post-colonial period
R11300 – Years 5–9

This collection of eight digital curriculum resources focuses primarily on the Point McLeay Mission Station, which was established as a refuge for Ngarrindjeri people who had survived the initial impact of colonisation. Other categories include James Unaipon and David Unaipon, two significant Ngarrindjeri leaders, who lived at the Mission Station.

Noongar people and settlers in the Swan River colony
R11299 – Years 5–9

This collection of nine digital curriculum resources, including paintings such as R4656 King George Sound, 1834 – asset 7, focuses on relations between the Noongar people and settlers in the Swan River colony in two locations – the Swan River itself and the King George Sound area. Paintings show European exploration upriver in 1827 and coexistence between Noongar people and settlers in 1834.

Indigenous people and British colonists in the area that became Sydney
R11301 – Years 5–9

This collection of 12 digital curriculum resources includes information about colonial attempts to achieve Indigenous people's cooperation; the abduction and life of Bennelong; Indigenous choices between resistance and cooperation; the life of Bungaree; and an effect of the colonial grog culture. The collection includes portraits of individuals such as R4040 Indigenous Australian man, Gnung-a Gnung-a ("Collins"), 1802, who at various times made critical choices between cooperating with colonists and resisting them.
**Indigenous people and colonists of Van Diemen’s Land**
R11302 – Years 5–9

This collection of paintings, sculptures and an archival proclamation includes R3738 ‘Timmy, a Tasmanian Aboriginal, throwing a spear’, 1838. It focuses on two aspects of the history of relations between the Indigenous peoples of Tasmania and the colonists. The first is the period of conflict known as the Black War, which lasted until about 1833. The second is European artists’ depictions of Indigenous Tasmanians, who were wrongly believed by settlers to be members of a ‘race doomed not to survive’.

**Franklin River dam**
R10803 – Years 5–10

This collection of 17 digital curriculum resources, including L9525 *Discovering democracy: getting things done*, is organised into five categories: the Gordon River system; the dams referendum; the ‘Save the Franklin’ campaign; the pro-dam campaign; and the Franklin is saved. The collection includes historic images and film footage, learning objects and interviews of prominent anti-dam activists Bob Brown and Chris Arthur.

**Wave Hill walk-off**
R11294 – Years 5–10

This collection of 15 digital curriculum resources includes photographs (such as R7757 *Wave Hill Station, 1980*), a film clip, an audio interview and a learning object tracing the history of the walk-off from Wave Hill station from its beginning in August 1966 until the return of the land at Daguragu to the Gurindji people in August 1975. The collection is organised into five categories – Wave Hill station; the walk-off; land rights struggle; return of the land; and Vincent Lingiari.
Western Front
R11165 – Years 5–10

This collection about the Western Front – a series of trenches that stretched for 700 km from the Swiss border to the North Sea in the First World War – contains 22 digital curriculum resources, including R10625 ‘Scenes from the Western Front’, 1914–18. It is organised in five categories – conditions on the Western Front; trench warfare; behind the front line; caring for the casualties; and aerial combat. The collection contains original and recent film footage, photographs and paintings.

Boer War
R11166 – Years 5–10

Using documentary footage, clips from the feature film Breaker Morant, contemporary photographs and a political cartoon, this collection traces aspects of the history of the Australian colonies' and nation's involvement in the Boer War (1899–1902). The collection contains nine digital curriculum resources and is organised in four categories – Australian colonial responses to the outbreak of the Boer War; casualties in the Boer War; Breaker Morant; and celebrating and commemorating the Boer War.

Exploration of Antarctica: the 'heroic era'
R10805 – Years 5–10

This collection of 18 digital curriculum resources focuses on expeditions to Antarctica in the early years of the 20th century. It looks at Mawson's Australasian Antarctic Expedition of 1911–14; Nordenskjöld's expedition, 1902; Shackleton's expeditions; Amundsen's expedition, 1911; and Mawson's expeditions of 1929–31. Using mostly archival and modern-day film footage, including R4125 'The Mawson Australasian Antarctic Expedition 1911–1913' – asset 5 and still images, the collection illustrates the extreme conditions and risks of Antarctic exploration during what is known as the 'heroic era'.
William Cooper, Indigenous Australian activist
R11295 – Years 5–10

This collection of seven digital curriculum resources includes archival photographs (such as R7754 William Cooper, 1935), a newsreel clip and a learning object on William Cooper, a significant Yorta Yorta leader and activist of the 1930s, as well as an interview with his grandson. The collection explores William Cooper and his family; a petition to the King; and the Day of Mourning.

Day of Mourning protest
R11296 – Years 5–10

On the 150th anniversary of the British landing at Sydney Cove, a group of Indigenous activists held a groundbreaking conference to campaign for equal rights. This collection of seven digital curriculum resources includes archival photographs (such as R6796 Aboriginal Day of Mourning, 1938 – item 1), a home movie clip and a learning object on the conference, the Day of Mourning protest, and the roles some Indigenous people were required to play in the sesquicentenary celebrations.

Wiradjuri people and the settlers of inland New South Wales
R11297 – Years 5–10

This collection of eight digital curriculum resources, including archival photographs such as R3214 King Billy with his dog, 1921, paintings, sketches and a learning object, is organised into four categories – first contact; Windradyne; maintaining culture; and Jimmy Clements ('King Billy'). The collection focuses on the history of relations between the Wiradjuri people and the settlers of inland New South Wales from the first sustained contact in 1815 to Clements's land rights protest in 1927.
**Bushrangers**
R11332 – Years 5–10

This collection of 21 digital curriculum resources about Australian bushrangers is organised into six categories – the threat of bushrangers; Ben Hall; Martin Cash; Dan Morgan; Ned Kelly in contemporary sources and bushranger films. It contains contemporary sketches such as R3322 'Death of Ben Hall', painted in 1894; portrait photographs, a letter and objects, as well as later paintings and re-enactments. Footage and stills from *The story of the Kelly gang* reference the early-20th-century bushranger films and their effect on the construction of Australian identity.

**Squatters on their 'run'**
R11333 – Years 5–10

This collection of 24 images, including R3302 'First hut at Challicum, 1842,' focuses on the experiences of three squatters, Duncan Cooper and George and Harry Thomson, who occupied land in western Victoria from 1842 to 1853. The collection is organised into five sections – squatters occupying a 'run' at Challicum; establishing the home station; lambing stations and outstations; surviving and dying at Challicum; and panoramas of the 'run'. The watercolours in the collection provide a unique record of life on a squatters' run during this period.

**Ned Kelly**
R10789 – Years 5–10

The bushranger Ned Kelly is one of the best-known figures in Australian history. This collection of 15 digital curriculum resources, including R10643 *Ned Kelly the day before he was hanged, 1880*, focuses on Ned Kelly's life and death and contains learning objects, photographs, artefacts, film clips and illustrations. The collection comprises records from the 1870s and 1880s, including significant events in Kelly's bushranging career; representations of him in film, art, dance and popular culture; and opinions about whether he was a hero or a villain.
Mapping Australia
R11076 – Years 5–10

This collection of 20 digital curriculum resources is organised into six categories – the unknown south land; Australia's coastline as charted by Dutch explorers; Australia's eastern coastline as charted by James Cook; Matthew Flinders’s charting of the Australian coastline; Indigenous Australians' maps of country; and mapping the British colonies in Australia. While the collection includes paintings, film footage and navigational aids, its main feature is the historical maps themselves, including R5353 Map of Australia based on surveys by Abel Tasman, 1744.

Snowy Mountains Scheme in overview
R11344 – Years 5–10

This collection of 13 digital curriculum resources focuses on the 'big picture' of the Snowy Mountains Hydro-electric Scheme. It is organised into three categories: overviews of the Scheme; maps and diagrams of the Scheme; and celebrating stages in the scheme. The collection contains historic photographs, film footage and an interactive learning object that enables students to classify key events in its development.

Flying in Australia
R11336 – Years 5–10

This collection of 25 digital curriculum resources focuses on the history of flying in Australia as a means of travel, exploration, recreation andadventure and as a cause of death. It looks at first flights in Australia; female pilots; the importance of the Moth planes; seaplanes; Qantas; the Flying Doctor Service; and the crash of the Lutana. The collection contains photographs, such as R3585 'Nancy Bird Walton with her plane, Gypsy Moth, 1935', and film footage.
Free selectors
R11334 – Years 5–10

This collection of ten digital curriculum resources, including R8482 *The selector’s hut (Whelan on the log),* 1890, is about free selectors in Australia. It is organised into two categories – free selectors on their selections and free selectors portrayed in film. Photographs and a painting show selector families working to clear their selections and posing in front of the houses they have constructed. Film excerpts from the 1920s and 30s depict selectors in a range of ways, including as tragic, heroic or comic figures.

Australian Constitution writers
R11077 – Years 5–10

This collection of 21 digital curriculum resources focuses on the men who wrote and debated the draft Australian Constitution. The collection looks at the development of the Constitution; the Australasian Federation Conference of 1890; the National Australasian Convention of 1891; the Australasian Federal Convention of 1897 and 1898; the 'Braddon blot', a controversial clause; the exclusion of Indigenous Australians; and the secret premiers' meeting of 1899. The collection includes learning objects, drawings, cartoons and photographs such as R10636 *Australasian Federation Conference, 1890.*

Children on the home front during the Second World War in Australia
R11171 – Years 5–12

This is a collection of 14 digital curriculum resources focusing on the home front roles and activities of Australian children during the Second World War. It includes R9418 *Members of the Ginger Meggs Salvage Corps, Melbourne, 1945.* It is organised into eight categories - collecting salvage for recycling; making dummy grenades and camouflage nets; knitting and doing volunteer work; spending time in air raid shelters; digging trenches at school; coping with fathers away at the War; registering for future service; and a teenage girl's experience of wartime.
**Bombing of Darwin**  
**R11346 – Years 5–12**

Between February 1942 and November 1943, the Darwin area was bombed 64 times. This collection of 18 resources focuses on these attacks and is divided into seven categories - the likelihood of an attack on Darwin; the first attack, on 19 February 1942; the exodus and its aftermath; after the first air raid; Japanese air crew captured; later attacks in 1943; and bomb disposal. The collection includes historic photographs, film footage, interviews and newspaper articles.

**WARNING**

Please be aware that this digital curriculum resource may contain references to Aboriginal and Torres Strait Islander people who may have passed away.

---

**Establishing Australia's national capital, 1899-1926**  
**R11347 – Years 5–12**

This collection of 21 digital curriculum resources focuses on the early establishment of Canberra. The collection is divided into five categories - deciding to build a new capital city; deciding on a site; deciding on a design; naming the national capital; and starting to build the national capital. It includes a textual document, archival photographs, architectural plans, and footage from official films of the time.

---

**The Australian navy in action**  
**R11349 – Years 5–12**

This collection of 11 resources about the Australian navy is organised in seven categories - destroying the Emden in 1914; training with torpedoes in the 1930s; the Second World War; the loss of HMAS Sydney in 1941; HMAS Canberra in harbour in 1941; under fire in Darwin Harbour in 1942; and the loss of HMAS Kuttabul in 1942. The collection contains photographs, documents, a feature film still, newsreel and propaganda film footage and a picture trail.
Women on the home front in the Second World War
R11170 – Years 5–12

This is a collection of 25 digital curriculum resources focusing on home front roles and activities undertaken by women during the Second World War. It is organised into six categories - working to supply military equipment; producing and conserving food; undertaking war-related clerical work; working in the laboratory; working as volunteers; and saving and buying war bonds. The collection includes photographs and posters as well as documentary and propaganda film footage.

Communicating by telephone in the past
R11387 – Years 5–12

This collection of 16 digital curriculum resources, including R5869 *Women working in a telephone exchange, 1929*, focuses on the telephone in Australia, a means of mass communication dating back to the first call made in Melbourne in the late 1870s. The collection is organised into five categories - telephones in business; role of telephonists in exchanges; telephones in the home; using a radio telephone; and changes in technology and delivery. It includes photographs, film footage, and images of telephones of the past.

Australian servicewomen in the Second World War
R11388 – Years 5–12

This is a collection of 23 digital curriculum resources focusing on Australian servicewomen during the Second World War. It is organised into seven categories – recruiting; the Australian Army Nursing Service; the Royal Australian Airforce Force Nursing Service; the Australian Women's Army Service; the Australian Women's Land Army; the Women's Australian Auxiliary Air Force; and Australia's most decorated servicewoman, Nancy Wake. The collection includes photographs, posters, newsreel film footage and a painting, R8595 "Transport driver (Aircraftwoman Florence Miles)", 1945.
**Māori and Pākehā (Europeans) during the colonial period in New Zealand**

R11317 – Years 5–12

This is a collection of 24 digital curriculum resources focusing on interactions between Māori and Pākehā during the colonial period of New Zealand history. It is organised into eight categories: early contact with British whalers and settlers; the Treaty of Waitangi; arrival of British colonists; the New Zealand Wars of 1843-72; Pākehā influences on Māori; Parihaka; cultural dispersal and loss; and colonial depictions of Māori. The collection includes R2467 'Young Māori in European clothes', 1865.

---

**Charles Perkins and the Freedom Ride**

R10814 – Years 5–12

This collection of eight resources focuses on Indigenous activist Charles Perkins during the years he spent at Sydney University (1963-65), and on the Freedom Ride protest of February 1965. The Freedom Ride travelled through rural New South Wales, meeting Indigenous people and identifying and protesting against examples of segregation and discrimination. Through contemporary photographs, documentary film footage (including R7439 Blood Brothers - Freedom Ride, 1993: Creating a revolution) and a learning object, the collection shows Perkins and the Student Action for Aborigines group in action.

---

**The 1967 referendum**

R11078 – Years 5–12

This collection of seven digital curriculum resources focuses on the 1967 referendum to change the Constitution to allow the Australian Parliament to legislate in relation to Indigenous people and to allow Indigenous people to be counted in the census. It is organised into three categories – lobbying for a referendum in the 1940s; the long campaign for a referendum in the 1960s; and advocating the 'yes' case. The collection contains documents, photographs, film footage and R6805 Referendum poster, 1967.

---
**Shearing**
R11353 – Years 5–12

This collection of 14 digital curriculum resources focuses on shearsers and shearing. The collection includes R5094 Shearing and baling wool, 1958 – asset 1 and explores shearsers in action, shearsers and Australian identity, shearing sheds and shearing shed interiors. The collection includes watercolours, photographs, a colonial song about a shearer, and documentary and feature film footage.

**Epidemic diseases in 19th- and 20th-century Australia**
R11338 – Years 5–12

This collection of 17 digital curriculum resources is organised into eight disease categories – influenza; tuberculosis; diphtheria; poliomyelitis; smallpox; whooping cough; measles; and bubonic plague. Some of these occurred in huge epidemics such as the Spanish influenza epidemic of 1918–19. Others, such as tuberculosis, were constant killers. The collection includes drawings, photographs and documents as well as newsreel and promotional film footage including R6524 ‘Immunisation. Goodbye to the plague’, 1989 – asset 5.

**Repatriation of First World War veterans**
R11340 – Years 5–12

This collection of 15 digital curriculum resources focuses on Australia's First World War veterans returning home to civilian life. It is organised in six categories – soldiers filling in time before repatriation; welcome home; initial support for veterans; ongoing care of the war wounded; jobs for veterans; and soldier settlers. The collection includes photographs, newsreel and documentary film footage such as R7120 The Digger Carries On: Repatriation Illustrated, 1919: The Anzac Hostel for returned soldiers.
First contact
R10701 – Years 5–12

This collection of ten digital curriculum resources is organised into four categories – contact with Macassan traders; contact with colonists; contact with scientific expeditions; and misleading non-Indigenous representations of contact. The resources in the collection include paintings, documentary footage, photographs and drawings. Most, but not all, of the items in the collection represent first contact from non-Indigenous points of view.

Policy and law affecting Indigenous Australians over time
R10699 – Years 5–12

This collection of 24 digital curriculum resources focuses on colonial attempts at harmonious relations; punishing resistance; controlling Indigenous people’s lives; attempts at assimilation and the continuing removal of children; the 1967 referendum and its effects; land rights; and Indigenous policy in the 21st century. The collection includes documentary clips such as R10332 Kevin Rudd’s apology speech, 2008 – item 1 of 6.

Overland Telegraph Line
R11384 – Years 5–12

The construction of the Overland Telegraph Line 1871–72 was the first truly national development project in Australia. This collection of nine digital curriculum resources, including R5079 Alice Springs Telegraph Station centenary, 1972 – part 3 of 3, focuses on: building the Overland Telegraph Line; the people who brought the project to fruition; and how the Overland Telegraph Line connected Australia to the rest of the world. The collection includes a learning object, photographs, documentary footage and an example of a cablegram.
Sending a telegram
R11385 – Years 5–12

Sending a telegram was the main form of rapid long-distance communication in Australia until well after the Second World War. This collection of 11 digital curriculum resources focuses on four aspects – the process of sending a telegram, from message composition to delivery; telegraphists at work; the ‘telegram boy’; and telegrams for special occasions. The collection includes historical photographs, newsreel footage, and images of telegrams sent by prime minister John Curtin to his wife Elsie.

Enlistment and recruitment in the First World War
R11351 – Years 5–12

This is a collection of nine resources focusing on the means used to increase enlistments during the First World War. The collection includes R2071 Recruiting at a charity bazaar, enlistment posters, recruitment films, tours, parades, pressure to enlist, and enlistment and recruitment overall. It includes photographs, telemovie and newsreel footage, an interactive learning object and a unit of work.

Conscription referendums of 1916 and 1917
R11339 – Years 5–12

This collection of 25 resources focuses on the divisive conscription referendums of 1916 and 1917. It is organised in five categories – examining the issues and arguments; the pro-conscription case in film; film shorts in favour of the Yes case; the No case; and anticonscription activists. The collection contains photographs, documents, a unit of work and the learning object L369 Peter Dalton: enlistment and the call to war. It highlights the contemporary film footage supporting the Yes case.
**Queen Elizabeth II**
R10697 – Years 5–12

This collection of seven digital curriculum resources is organised in four categories – the coronation; the 1953–54 tour of Australia; the Queen opening the Sydney Opera House in 1973; and the Queen's Silver Jubilee tour in 1977. The collection includes photographs (such as R1410 *The Queen at Parliament House, Canberra*), newsreel clips and rare colour footage of the coronation in 1953 shot by prime minister Robert Menzies.

**Great Depression in Australia**
R10614 – Years 5–12

This collection of 23 digital curriculum resources is organised into three categories – economic policies during the Great Depression; the unemployed; and the effects of the Great Depression on Australian families. The effects of the Great Depression were felt in Australia from 1929 until the outbreak of the Second World War and this collection uses original and re-created footage including R2518 *Feeding the unemployed during the Depression*, and an audio interview, photographs, documents and artefacts to reveal its human cost.

**White Australia policy**
R10505 – Years 5–12

This collection of 17 digital curriculum resources about the White Australia policy covers the racist background to the policy, its use of a dictation test to exclude non-white immigrants, the deportation of indentured Pacific Islander labourers in the 1900s, the effects of the policy on people's lives, its supporters and opponents in the 1940s, and how the policy was progressively dismantled from the 1960s. The collection contains documents, cartoons, such as R9351 *Cartoon supporting Pacific Island Labourers Bill, 1901*, and photographs.
Native title
R11164 – Years 5–12

This collection of 21 resources traces the history of Indigenous Australians’ attempts to gain legal title to their traditional lands. The collection is organised in categories – the native title process; the early struggle to gain recognition as traditional owners; the Gurindji people’s campaign for Daguragu (Wattie Creek); the Mabo case and the Keating government's response; and the Wik case and the Howard government's response. The collection includes R10763 ‘Land rights for Aborigines, Answering your questions’, 1968.

Women’s suffrage in New Zealand
R11293 – Years 6–9

This collection of eight digital curriculum resources, including R11156 First meeting of New Zealand’s National Council of Women, 1896, focuses on women's suffrage in New Zealand in the period when the self-governing British colony became the first to grant adult women the right to vote. The collection looks at significant women who campaigned for women's suffrage; satirical cartoons from contemporary newspapers commenting on the social effects of enfranchising women; women voting; and the third petition to parliament requesting political equality for women.

Australian service personnel and the Vietnam War
R11167 – Years 6–12

This collection of 23 digital curriculum resources, examines the involvement of service personnel, including both conscripted and regular troops, in the Vietnam War. It is organised into five categories – committing service personnel to the War; Australian troops preparing to go to Vietnam; Australians in Vietnam; coming home; and after the War. The collection includes archival and re-enacted footage, documents, photographs and oral histories.
Trade unions in Australia
R10696 – Years 6–12

This collection of 25 digital curriculum resources, such as R9329 ‘Carving it out’ for the eight-hour day in Queensland, 1899, traces union activity since the second half of the 19th century. It looks at the eight-hour day campaign; significant union leaders; women and unions; the shearers’ strikes of the 1890s; the great General Strike of 1917; unions on the waterfront; unions in the mines; and unions and social issues. The collection contains learning objects, photographs, a sound file and video clips showing unions in action.

Australian attitudes to the war in Vietnam
R11326 – Years 6–12

This collection of 21 digital curriculum resources explores early protests; ambivalence about the war in Vietnam; conscription; protests and moratoriums; reactions of the troops in Vietnam; government responses; and reaction to the bombing of Hanoi. Through archival and television footage, documents and photographs, the collection examines the rise of one of the largest dissent and protest movements in Australian history.

Australian women and the First World War
R11327 – Years 6–12

This collection of 22 digital curriculum resources focuses on Australian women’s roles in the First World War and in the War’s aftermath. It is organised into five categories – nurses at home and at the front; voluntary work supporting the troops; farewelling and waiting for loved ones; women’s role in propaganda; and supporting or opposing the War. The collection includes archival film footage, documents, photographs (such as R2516 Red Cross women bottling during the First World War) and an interactive learning object.
Australian colonial involvement in the Sudan conflict of 1885
R11328 – Years 6–12

This collection of eight digital curriculum resources focuses on the decision by the colony of New South Wales to send troops to support Britain in the 1885 Sudan War. It is organised into three categories – the NSW troops; the Sudan War as a catalyst for nationalism and imperialism; and ridicule of the British Empire and the NSW decision. The collection includes contemporary cartoons and illustrations.

Internees and prisoners-of-war in Australia during the Second World War
R11172 – Years 6–12

This collection looks at the substantial number of enemy 'aliens' and prisoners of war confined in Australia during the Second World War. It focuses on immigrants interned; internees from overseas; Italian and German prisoners of war; internment and POW camps; Japanese prisoners and the Cowra breakout; and internees and POWs in Australia. The collection includes photographs and documentary, newsreel and television footage such as R4644 ‘First German prisoners reach Australia’, 1941 – asset 2.

John Curtin, Australia's wartime prime minister
R11566 – Years 7–12

This is a collection focusing on John Curtin, Australia’s prime minister from 1941 to 1945. It is organised into seven categories - Curtin becomes prime minister; declaration of war with Japan; putting Australia on a total war footing; relations with Britain; relations with the USA; wartime visit to Britain and the USA; and the toll of wartime leadership. The collection contains archival film footage and documents, audio files and photographs such as R2956 Prime Minister John Curtin in London, 1944.
Robert Menzies
R11567 – Years 7–12

This is a collection of 21 digital curriculum resources focusing on Australia’s longest serving prime minister, Robert Menzies, who held office for more than 17 years. The resources are organised into four categories - prime minister in the early years of the Second World War; regaining office in 1949; prime minister throughout the 1950s; and prime minister until 1966. The collection includes photographs, documents, a historic broadcast, and film footage.

Human cost of war
R11168 – Years 7–12

This collection of 25 digital curriculum resources about the human cost of war is organised into five categories – death; civilian and combatant casualties; separation and displacement; prisoners of war; and internment. The conflicts include world wars and civil wars and encompass the 20th and 21st centuries. The collection contains photographs, paintings, an audio interview, a song, a short story and a document but its main feature is documentary, newsreel and television film footage.

Asylum seekers in the 1990s and 2000s
R11169 – Years 8–12

This collection of 13 digital curriculum resources focuses on the arrival of asylum seekers in Australia in the 1990s and early 2000s. It examines reasons for seeking asylum; Australian reactions; detention centres; assessing refugee status; and living and working in the community. The collection includes documentary and feature film footage such as R10588 Lucky Miles, 2007: The wrong place, cartoons and poetry.
Australians and the Korean War
R11341 – Years 8–12
This collection of 17 resources, including R6750 ‘Aussies land in Korea’, 1950 – part 3 of 3, explores Australian involvement in the Korean War. It is organised into five categories – prime minister Menzies commits Australian troops; Australians troops land in Korea; the Australian air force in action; an Australian newsreel report of the situation in Korea; and ceasefire and the release of Australian prisoners. The collection features interviews and newsreel footage and gives a vivid insight into Australian attitudes to the War and to the spread of communism.

Australia and the atomic age, 1950–69
R11343 – Years 8–12
This collection of 19 digital curriculum resources provides a vivid insight into Australian attitudes to nuclear weapons and power during the Cold War. It is organised in five categories – atomic and nuclear bomb testing in Australia; weapons research at Woomera; the Australian government's belief in nuclear weapons; enthusiasm for nuclear energy; and uranium mining. The collection contains archival film footage, government documents, photographs (including R11065 Testing a nuclear bomb at Maralinga, 1957) and interviews.

Japanese threat to Australia, 1941–43
R10615 – Years 8–12
This collection of 24 digital curriculum resources is organised into seven categories – the outbreak of war with Japan; the fall of Singapore; troops for the defence of Australia; the battle for Australia; Japanese attacks on Australia from the air; the Japanese attack on Sydney by submarine; and wartime posters about the Japanese threat. Through archival footage, documents, posters, photographs and oral history, the collection examines the threat between December 1941 and late 1943.
### Petrov affair

R11342 – Years 8–12

This collection of 12 digital curriculum resources focuses on the defections of Russian spies and embassy officials Vladimir and Evdokia Petrov in 1954. It is organised in four categories – Vladimir Petrov's defection announced; scenes at Sydney airport; ensuring the Petros' safety in Australia; and the key political players in the Petrov affair. The collection contains photographs and documents but its highlight is Cinesound newsreel footage of the unfolding events, including R6616 'Petrov sensation', 1954 – part 1 of 6.

Stock Footage supplied courtesy of Film World Pty Ltd and Cinesound Movietone Productions. Reproduced courtesy of National Film and Sound Archive. Produced by Cinesound Productions.

### Fear of communism in Australia in the 1960s

R11348 – Years 9–12

This collection of six digital curriculum resources focuses on Cold War fears in Australia during the 1960s about the threat of communism. The collection is organised in three categories – the possible use of nuclear weapons to stop communism in Asia; Australian Security Intelligence Organisation (ASIO) surveillance of communists in Australia; and the Australian Labor Party's views on communism in 1966. The collection includes documents, television advertising, an ASIO surveillance training film and archival photographs such as R11022 Aarons family surveillance, 1966.

From the collection of the National Archives of Australia. Photograph by Australian Security Intelligence Organisation.

### US-Australian relations

R11562 – Years 9–12

This is a collection of 25 resources focusing on US-Australian relations between 1901 and 2007. It is organised into eight categories - relations at the time of Federation; the Great White Fleet in 1908; Curtin's call to America; US troops in Australia during the Second World War; relations during the Menzies era; the Vietnam War; the Whitlam years; and during the Howard era. The collection includes photographs, artefacts, film footage, interviews and cartoons, including R8611 Cartoon of an Australian wife kissing a US soldier, 1943.

Mathematics collections

**Telling time**  
R10914 – Years 0–2

This collection of 12 digital curriculum resources explores concepts such as analogue and digital; matching times; and on the hour, on the half-hour and on the quarter-hour. There are opportunities for learning how to tell the time using both analogue and digital clocks using objects such as L7792 *Wake up, Pup: analogue and digital*. Times are read, interpreted and manipulated, and familiar events are sequenced. Audio support on some digital curriculum resources enables students to hear and see the different ways that time is presented.

**Seeing shapes**  
R10709 – Years 0–2

This collection of 14 interactive learning objects is organised into five categories – classifying and manipulating shapes; line symmetry in shapes; tessellations; directions using distance and rotation; and shapes in three-dimensional objects. All the learning objects in the collection introduce and reinforce students' understanding of two-dimensional shapes and the last two enable students to begin to visualise relationships between two-dimensional shapes and three-dimensional objects.

**Exploring addition and subtraction**  
R11082 – Years 0–2

This collection contains 12 digital curriculum resources from the 'Counting beetles' and 'Number trains' series including L2318 *Number trains: numbers 1–10*. The collection includes two categories of counting strategies: counting on and back, to give students practice in counting on or back from any number up to 120; and counting using number representations. A third category - solving and making word problems - encourages students to work mathematically.
### Exploring division and multiplication

**R11083 – Years 2–4**

This collection of 17 digital curriculum resources contains activities to consolidate and extend students’ problem-solving skills in the areas of multiplication and division. The first category, arrays, allows students to visualise problems while consolidating the idea that multiplication involves repeated groups of objects. The second category, solving multiplication and division problems, enables students to solve and create problems and helps them to develop their own strategies for solving equations. Assessment tools are included.

### Introducing chance – Years 2 to 4

**R10725 – Years 2–4**

This collection of ten learning objects introduces chance – the likelihood of an event occurring – mostly in qualitative terms. Objects in the first category, theoretical or random chance, emphasise the difference between experimental and theoretical probability. Objects in the second category, including L2376 Spinners: basic builder, utilise frequency tables and graphs to demonstrate how information differs depending on whether it is provided by short, medium or long-term trialing of events.

### Patterns and sequences

**R10710 – Years 2–4**

This collection of 12 interactive learning objects, including L1057 Monster choir: missing monsters, looks at patterns of colour or shape; patterns by number counting; and patterns and rules. Numeric, visual and auditory elements are used to create, extend, replicate and complete patterns. An understanding that patterns are predictable is developed. Algebraic thinking is introduced in an engaging and non-threatening way, using words and visualisation rather than symbolic notation.
Mental calculation strategies – multiplication and division
R10913 – Years 2–6

The 14 digital curriculum resources in this collection assist students to develop efficient and effective mental calculation strategies for performing multiplication and division. The collection also aims to develop and consolidate students’ knowledge of multiplicative number facts. It is organised in four categories: multiplication arrays for composite numbers; arrays for prime and composite numbers; partitioning to aid mental multiplication; and division by sharing or partitioning. The final two digital curriculum resources use some fraction notation.

Building basic fraction skills
R10708 – Years 2–6

This collection of 13 interactive learning objects is organised into four categories – introduction to fractions; naming fractions; fraction applications; and comparing and ordering fractions. The learning objects develop an understanding of the relationship between spatial, symbolic and written forms of a fraction. They enable students to compare and order fractions, to recognise equivalent fractions and to informally add fractions. Learning objects that allow students to explore fractions in a practical context have also been included.

Mental calculation strategies – addition and subtraction
R10912 – Years 2–6

This collection of 21 resources, including L871 Wishball challenge: whole numbers, assists students to develop efficient and effective mental calculation strategies for performing additions and subtractions of two-, three- and four-digit whole numbers. It is organised into three categories: developing strategies – addition; developing strategies – subtraction; and applying strategies. The ten learning objects in the applying strategies section give students opportunities to practise addition and subtraction strategies by making their own problems or by using a game-like environment.
**Visualising two-dimensional and three-dimensional shapes**  
R11084 – Years 4–6

This collection comprises 24 digital curriculum resources, including L8163 *Shape sorter: basic shapes*. There are three categories: exploring two-dimensional shapes; visualising three-dimensional shapes; and making three-dimensional shapes from two-dimensional shapes. Students can sort, visualise and manipulate shapes. Assessment tools for ‘Shape maker’ are included.

**Data – Years 5 and 6**  
R10723 – Years 5–6

The 11 learning objects in this collection relate to the use, collection, display, comparison and interpretation of statistical data. Objects in the first category, statistical graphs, enable students to compare and use a broad range of statistical graphs appropriately. Objects in the second category, surveys, explore and model processes used in conducting and analysing surveys. The final category, report writing, enables students to write a report of a survey based on the data collected.

**Financial maths – purchasing and pricing**  
R10713 – Years 5–8

This collection of 20 digital curriculum resources is organised into four categories: purchasing within a budget; budgeting and profit-making; purchasing and best buys; and pricing and production volume. In these interactive learning objects, students are encouraged to make decisions in regard to financial situations and are required to estimate and calculate using the four operations. The collection provides a cross-curricular approach to exploring financial maths.
Introducing chance – middle years  
R11254 – Years 5–9

This collection of 19 digital curriculum resources is organised into three categories: random sampling and predicting outcomes; random sampling from a population; and predictions and outcomes. It contains selections from four interactive learning object series: Vile vendor; Foul food; Random or not; and Dice duels. In these resources, including L2634 Dice duels: go-kart race, analysis of experimental results is often compared to theoretical probability.

Data – Years 7 to 9  
R10724 – Years 7–9

The 12 learning objects in this collection, including L3156 Leisure survey: popular sports, relate to the use, collection, display, comparison and interpretation of data. Objects in the first category, statistical data graphs, enable students to explore data using a range of graphical analysis tools. Objects in the second category, analysing surveys, enable students to identify and correct misleading representations of data, and model the process of conducting a survey.

Comparative pricing using calculations and linear graphs  
R11564 – Years 7–9

This collection of 15 interactive learning objects such as L1108 Mobile phone plans: peak and off-peak, supports year 7–9 students to use mathematical skills in real life situations involving comparative pricing. Each series offers progressively increasing levels of mathematical application. The mathematical skills of interpreting line graphs to compare costs, of using multiplicative strategies with money and quantities, and of using linear equations with fixed and variable costs are practised.
Graphing functions
R11253 – Years 9–12

This collection contains five digital curriculum resources (including L10089 EagleCat: trig-G) that introduce students to graphing linear, parabolic, cubic and trigonometric functions. Through exercises, students investigate how the constants in each function equation influence relevant aspects of graphing, such as dilations and translations, turning points, intercepts, points of inflexion, amplitude and period. In the first four resources in the collection, students are challenged to discover or predict either the equation form or the graphical form.

Introducing to differential calculus
R10711 – Years 10–12

This collection of 17 learning objects is organised into three sections: rates of change; differential calculus; and review of differential calculus. Students explore rates of change through liquid-pouring activities, and are introduced to the gradient of secants for linear, quadratic, cubic and quartic equations by using distance-time graphs and reducing time intervals to highlight the relationship between average and instantaneous velocity. The collection, featuring L7821 Differential calculus: the derivative, also introduces the derivative, using first principles for all power functions.
Science collections

Energy and forces – early years
R10729 – Years 0–4

This collection of 20 interactive learning objects, including L956 *Energy from the Sun*, introduces students to the concepts of forces and energy. It provides a selection of resources about energy and forces to support science teaching and learning across the early years of schooling and into year 4. The learning objects enable students to build energy and food chains, design energy-efficient houses, and harness solar energy for heating. Students consider how much energy is required to power some everyday things and explore the consequences of forces on motion.

Australian animals
R10702 – Years 0–4

This collection of 25 digital curriculum resources is organised into four categories – communities of Australian animals, animals in art and stories, vertebrates and invertebrates. Images, including photographs, scientific illustrations and Indigenous art, depict some well-known and some lesser-known Australian animals, including R9612 *Greater Bilby, ‘Macrotis lagotis’*. Learning objects enable students to explore Australian habitats and identify animals living there. Video clips show rare images of some elusive Australian species. An animated film tells an Indigenous story.
**Water quality and use – early years**
R11124 – Years 0–4

This collection of 25 digital curriculum resources is organised into four categories: water quality and management strategies; obtaining and storing water resources; water sustainability and efficiency of use; and animals that rely on healthy waterways. Learning objects, such as L5 River journey (includes spoken instructions), and images demonstrate the importance of maintaining unpolluted waterways. Videos and images show water capture, storage and use from an historical perspective, as well as revealing current water strategies.

**Weather – early years**
R11125 – Years 0–4

This collection of 25 digital curriculum resources focuses on thunderstorms; extreme weather events and conditions; studying, predicting and influencing weather patterns; and clothing suitable for particular weather conditions. This collection, featuring R8359 Lightning in Kakadu National Park, demonstrates different weather conditions and some of the devastating effects of extreme weather such as cyclones. Some equipment used in weather research is shown and students can choose appropriate clothing to match particular weather conditions in a selection of learning objects.

**Mini-beasts**
R10703 – Years 0–7

This collection of 24 digital curriculum resources is organised into categories of insects, arachnids, centipedes and crustaceans, with descriptions of their sometimes bizarre body features and behaviours in a category titled body structure and adaptations. Colour photographs, scientific illustrations and close-up microscope images such as R5799 Head of an Australian cockroach depict the animals, and video clips show well-known spiders. Interactive learning objects allow students to explore an Australian garden for creatures, or create their own creature using different body parts.
Native Australian insects
R11087 – Years 0–12
This collection of 25 digital curriculum resources is organised into five categories – body structure; feeding; life cycle; nests and shelters; and social organisation. Images in this collection demonstrate some important and interesting features of insects. Two interactive learning objects allow students to explore body structures of common Australian insects, and the life cycles of butterflies.

Poisonous animals
R11090 – Years 3–12
This collection of 17 digital curriculum resources focuses on a diverse array of poisonous animals organised into four categories – arachnids, marine invertebrates, vertebrates and insects. Some animals in the collection are highly toxic to humans and others are poisonous only to their potential predators. Resources describe the different ways in which the animals deliver their poison, including fangs, stingers and tentacles.

Threatened Australian animals
R11086 – Years 3–12
This collection of 20 digital curriculum resources contains a diverse selection of Australia’s threatened animals. It is organised according to their conservation status – endangered, vulnerable or extinct – and includes many images of animals in their natural environment or in museums as preserved specimens. Videos, including R8646 Threats to cassowary survival, show scientists discussing threats to some animals and interactive learning objects allow students to explore the habitats and biology of Australian animals.
**Pest animals**
R11088 – Years 3–12

This collection of 21 digital curriculum resources focuses on pest animals currently affecting the Australian and New Zealand environments. It is organised into three categories – environmental pests, economic pests and human nuisance pests. Images and videos depict some common pest animals as well as some more localised pests. Videos, such as R8934 *Controlling foxes, 2000*, discuss research and management strategies for some pests, and learning objects allow students to consider possible solutions to some well-known pests.

**Energy – middle years**
R10730 – Years 4–10

This collection of 23 digital curriculum resources is organised into three categories – energy conversions; forms of energy; and energy management. It includes learning objects, such as L2357 *Energy chains: energy use*, enabling students to build energy-efficient houses and cars, construct energy chains, harness solar energy for heating, operate nuclear reactors, and consider light and sound energy. Video clips discuss environmental and economic implications of energy use and various energy sources, including renewable sources.

**The night sky**
R10705 – Years 4–12

This collection of 22 digital curriculum resources explores phenomena of the night sky. It examines earth rotation, moon phases, eclipses, meteors, auroras, comets, stars and galaxies. Students can test their understanding through modelling various phenomena and completing interactive quizzes in various learning objects. There are images of significant astronomical patterns and phenomena.
Animal research
R11085 – Years 4–12

This collection of 25 digital curriculum resources looks at different aspects of animal research. It is arranged under three headings: collecting and identifying animals, field research and laboratory research. Video clips, such as R8657 Collecting and identifying spiders, show researchers employing different scientific methods to conduct studies, including analysing samples under a microscope and gathering information in the field. Images show scientists engaged in research activities and learning objects enable students to take on the role of researcher.

Animal behaviours
R11089 – Years 4–12

Through this collection of 25 digital curriculum resources, students investigate a range of animal behaviours – defensive behaviours; reproductive behaviours; locomotion; communication; feeding behaviours; adaptive behaviours; and nesting behaviours. Images such as R3024 Echidna rolled into a defensive ball, 1965 enable students to build a picture of behaviours such as the strategies animals use to avoid predation. Videos show some rarely seen animal behaviour, such as an echidna swimming, and learning objects demonstrate the association between physical and behavioural characteristics.

Circuits – upper primary
R10726 – Years 5–7

This collection of 11 digital curriculum resources is organised in three categories - types of circuits; circuit applications; and conductors and insulators. Interactive learning objects enable students to build and manipulate simple series and parallel electric circuits. Students investigate how current flows, effects of switches and breaks, and which materials are conductors and insulators. Images show modern high-tech applications and how they are produced.
Respiratory system
R11238 – Years 5–8
This is a collection of 13 digital curriculum resources, including R2820 _Section showing the lung structure of the lungfish_, describing the structure and function of various components of the respiratory system, including the throat and lungs. Some conditions and diseases affecting the respiratory system, such as sleep apnea, poliomyelitis and asthma, are demonstrated, and some methods of treatment are explained. An image shows the features of a red blood cell that optimise its role in gas transfer within the respiratory system.

Digestive system and diet
R11240 – Years 5–8
This collection, containing eight digital curriculum resources, comprises learning objects, an image and videos such as R9860 _Scientifically based dieting, 2005_. It describes the structure and function of the various components that make up the digestive system, such as the mouth, stomach and intestines. The role of diets and healthy eating in maintaining good nutrition, weight and digestion is explored. Some illnesses associated with the digestive system or poor diets are demonstrated.

Circulatory system
R11239 – Years 5–8
This collection of 12 digital curriculum resources comprises learning objects, videos and images that describe the structure and function of various components of the circulatory system, such as the kidneys, heart and blood. Some diseases affecting the circulatory system, including heart and kidney disease, are demonstrated, and some methods of treatment are discussed. Images show close-up views of different human cells with a discussion of their roles; and a video presents a medical emergency.
**Immune system**

R11241 – Years 5–8

This collection contains 16 digital curriculum resources. It is organised into three categories – structure and function of the immune system; disorders of the immune system; and vaccination and the immune system. It includes learning objects, videos, images and sound recordings. The roles played by blood and stem cells are described. Conditions and diseases such as asthma, diabetes and tonsillitis are profiled. The role of vaccination is explained in resources, including R6523 'Immunisation. Goodbye to the plague', 1989 – asset 4.

**Musculo-skeletal and nervous systems**

R11242 – Years 5–8

This collection contains 15 digital curriculum resources. It explores the structure and function of the musculo-skeletal system; the structure and function of the nervous system; disorders or injuries of the musculo-skeletal and nervous systems; and treatments for disorders of the nervous system. The collection includes learning objects, videos and images that describe these systems.

**Processes of plant growth**

R11243 – Years 5–8

This collection, containing 14 digital curriculum resources, explores factors affecting plant growth; movement of water in plants; genetic modification of plants; how different plants grow; and plant reproduction. Videos and images demonstrate plant genetic modification techniques, and a video discusses the role of bees in plant reproduction. Learning objects, such as L540 Fair test, introduce important concepts such as osmosis, photosynthesis and germination; and allow students to conduct several scientific experiments.
Meet a scientist
R10706 – Years 5–10

The 20 digital curriculum resources in this collection investigate the life and work of scientists from a range of scientific endeavours. It explores environmental scientists, life scientists, physical scientists, earth scientists and the qualities of a research scientist. Interactive learning objects can be used to explore and collect biographical data from which scientific profiles can be developed. Several audio and video resources discuss the nature of the work of particular scientists.

Shaping the Earth’s surface
R11123 – Years 5–10

This collection of 22 digital curriculum resources is organised into four categories: processes and changes over geological time: tectonic events in recent history; natural environmental processes; and consequences of altering the Earth’s surface. Learning objects (such as L5830 Tectonic boundaries), images and videos demonstrate changes throughout the Earth’s history and ongoing processes such as erosion caused by wind and rain. Consequences of changes to the surface, including increases in salinity, are also demonstrated.

Infections
R11091 – Years 5–12

This collection of 24 digital curriculum resources, including R4448 ‘Fight to combat TB’, 1945 – asset 2, looks at the causes and spread of infections; and fighting infections. Videos and images provide a historical perspective of human infectious diseases in Australia, including epidemic events and drug and vaccine development. Learning objects explore the transmission, symptoms and treatment of various infections, how the immune system protects against infections, and how disease outbreaks can be controlled.
Cells
R11093 – Years 5–12

This collection of 18 resources looks at cell types; cell growth and division; and cell structure and function. It includes R8766 Early stage human embryo as well as a three-dimensional view of a cell and a diagram of a cell’s internal structure. Video clips show living cells under a microscope and animations of cell division and cell movement. Interactive learning objects allow students to investigate cell division, discover which cells make up blood and observe abnormal cell growth.

Extinct Australian animals over time
R10704 – Years 5–12

This collection of 21 digital curriculum resources explores fossils and geological time, early mammals and megafauna, recent extinctions, dinosaurs and invertebrates. The diverse groups of extinct Australian animals in the collection are represented in images of fossils, scientific reconstructions and illustrations. Video footage shows the last remaining captive Tasmanian tiger. Interactive learning objects allow students to excavate fossils and explore times past.

Volcanoes
R11130 – Years 6–10

This collection of 18 digital curriculum resources examines active volcanoes, effects of volcanic eruptions, a volcano on Mars, and tectonic plates. There are images of well-known active volcanoes such as R8364 Lava flowing from Mount Etna, 2006, learning objects that enable investigation of tectonic forces and plate movements and the relationship of the forces and movements to volcanoes, and assessment resources that assess students’ abilities to use geological evidence to interpret past events such as volcanoes.
Tsunamis
R11127 – Years 6–10

This collection of ten digital curriculum resources about tsunamis is organised into four categories: aftermath of the 2004 tsunami; victim identification; developing ideas to assist tsunami survivors; and tectonic plates. There are images of destruction, including R8371 Banda Aceh, three weeks after the 2004 tsunami, and of a scientist displaying DNA results used for identifying victims. Learning objects enable students to investigate tectonic forces and plate boundaries and their relationship to tsunamis.

Earthquakes
R11129 – Years 6–10

This collection of 12 digital curriculum resources is organised into three categories: fault lines, causes and effects of earthquakes, and tectonic plates. The collection contains images of fault lines (such as R8440 The San Andreas Fault, California), learning objects that investigate tectonic forces and plate movements, and a learning object in which students create a television show about earthquakes. The collection also includes several assessment resources to assess a student's ability to use geological evidence to interpret past earthquakes.

Formulating hypotheses
R11092 – Years 7–10

Through this collection of 10 digital curriculum resources, students explore the concept of scientific hypotheses and are introduced to important terminology. Using some of the learning objects, students formulate hypotheses and conduct experiments and investigations based on their hypotheses. Other learning objects encourage students to make predictions based on information provided and to assess their accuracy.
Gene technology
R10707 – Years 8–12

This collection of 24 digital curriculum resources, including R8317 First genetically modified primate, 2001, looks at how genes work, techniques of gene technology, applications and examples, GM food and genetic engineering in fiction. Interactive learning objects explore the nature of genes and how they are manipulated. There are images of cells under a microscope and of equipment used in gene technology. The process of genetic modification of organisms is explored and issues are covered in audio and video footage.

Circuits – middle secondary
R10727 – Years 9–10

This collection of 16 digital curriculum resources is organised in two categories - circuit applications; and voltage, current and resistance. Interactive learning objects enable students to manipulate simple series and parallel electric circuits. Students investigate the effects of switches, resistors, logic gates and transistors on current flow and measure current flow, applying some standard principles. Video clips explore early production of integrated circuits. Images show modern production techniques and some modern high-tech applications of circuits.

Motion and forces
R11120 – Years 9–10

This collection of 15 digital curriculum resources is organised in three categories – measuring motion; effects of forces; and friction. The collection includes learning objects, such as L1104 Triathlon: the course, that demonstrate how motion can be represented and recorded. Graphical techniques are frequently central to the analysis. Several resources develop the relationships described by Newton's laws of motion and others explore the pervasive influence of friction.
This collection of 16 digital curriculum resources, including R8957 Solar car, 1998, is organised into three categories – forms of energy; energy conversions; and energy management. Learning objects enable students to build energy-efficient cars; consider environmental and economic implications of a range of energy sources, including solar and wind; operate nuclear reactors; investigate chemical reactions; and consider the greenhouse effect. Video clips demonstrate new alternative energy technologies.

This collection includes seven digital curriculum resources, among them R11202 Constant acceleration, which develop the theoretical aspects of kinematics and equations of motion. Video sequences illustrate fundamental principles while reference web pages and learning objects provide background material on the mathematical techniques required, including calculus and vectors. A colour image shows the structure of a microscopic device that measures acceleration.

This collection of six digital curriculum resources includes resources, such as R11203 Projectiles, that develop the theoretical and practical aspects of projectile motion. Video sequences illustrate the fundamental kinematic principles of projectile motion and reference web pages provide background material on the mathematical techniques required, including graphing and vectors. Two separate resources provide alternative approaches to the classic ‘monkey and hunter’ problem.
Newton's laws
R11118 – Years 11–12
This collection of nine digital curriculum resources, including R11208 *Weight and contact forces*, examines forces and their effects. Video sequences develop the theoretical and practical aspects of Newton's three laws of motion, weight, friction, the normal force and centre of mass. Web pages provide background material as well as explaining frames of reference and the appearance of fictitious forces such as centrifugal and Coriolis forces in non-inertial frames.

Simple harmonic motion
R11119 – Years 11–12
This collection of six digital curriculum resources includes resources that develop the theoretical and practical aspects of simple harmonic motion (SHM). Video sequences, such as R8958 *Vibrations on piano strings, 2001*, illustrate the fundamental kinematic principles of SHM and reference web pages provide background material on the mathematical techniques required, including calculus and vectors, as well as further material on applications to sound waves and alternating current (AC) circuits.

Circular motion
R11100 – Years 11–12
This collection includes six digital curriculum resources that develop the theoretical and practical aspects of circular motion. Video sequences illustrate the fundamental kinematic principles of circular motion. Reference web pages and learning objects provide background material on the mathematical techniques required, including calculus and vectors, as well as further material on applications.