



Index of Science digital curriculum resources

JULY 2009

Introduction


This document is an index of **Science** digital curriculum resources made available by The Learning Federation (TLF) to all schools in Australia and New Zealand. The content supports and enhances students' understanding of key scientific concepts in a range of contexts for the P–12 years.

In this index, the content is grouped into the following Science strands:

- Earth and beyond
- Life and living
- Energy and change
- Natural and processed materials
- Working scientifically.

Curriculum content includes:

- hundreds of interactive learning and assessment objects
- a large and diverse range of digitised items such as images, film clips, recorded interviews, maps, posters and documents.

The **learning objects** are grouped in year levels. TLF-created learning objects are generally published in series and some learning objects within a series are aggregated into single learning objects. Aggregated learning objects are identified with the  symbol.

Digital resources are grouped by the partner institution from which they have been licensed and by file type. The items include:



clips from documentaries, newsreels, television programs and feature films



photographs, line drawings, maps and documents



audio files of interviews, broadcasts and speeches.

Catalogues

Catalogues for each of the Science strands are available to download from TLF's website: www.thelearningfederation.edu.au.

These catalogues provide detailed descriptions of interactive learning and assessment objects, as well as many samples of digitised items licensed from TLF's partner institutions.

In addition, some thematic collections are provided in the catalogues as examples of how teachers might combine the various types of digital curriculum content in interesting and challenging ways for the teaching and learning of Science.











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 on TLF's website.





www.thelearningfederation.edu.au

























Earth and beyond

Learning objects















































Years	Learning object	TLF ID
	Soil series (Years P–2)	
P–2	Explore soil [includes spoken instructions]	L2
P–2	Create a soil environment [includes spoken instructions]	L3
P–2	Soil types [includes spoken instructions]	L4
P–2	Explore soil [no spoken instructions]	L187
P–2	Create a soil environment [no spoken instructions]	L188
P–2	Soil types [no spoken instructions]	L189
P–2	 Soil [includes spoken instructions]	L68
P–2	 Soil [no spoken instructions]	L205
	Water series (Years P–2)	
P–2	River journey [includes spoken instructions]	L5
P–2	Water types [includes spoken instructions]	L6
P–2	River journey [no spoken instructions]	L190
P–2	Water types [no spoken instructions]	L191
P–2	 Waterways [includes spoken instructions]	L69
P–2	 Waterways [no spoken instructions]	L206
	Weather series (Years P–2)	
P–2	Explore the weather [includes spoken instructions]	L9
P–2	Explore the weather	L193
P–2	Experience the weather [includes spoken instructions]	L10
P–2	Experience the weather	L194
P–2	Weather wear [includes spoken instructions]	L11
P–2	Weather wear	L195
P–2	 Weather [includes spoken instructions]	L71
P–2	 Weather	L207
	Day and night (Years P–2)	
P–2	Day sky, night sky [includes spoken instructions]	L20
P–2	Day sky, night sky	L204
	Under the Earth series (Years P–2)	
P–2	Caving [includes spoken instructions]	L12
P–2	Caving [no spoken instructions]	L196
P–2	Mineshaft [includes spoken instructions]	L14
P–2	Mineshaft [no spoken instructions]	L198
P–2	 Under the earth [includes spoken instructions]	L72
P–2	 Under the earth [no spoken instructions]	L208
	Water use series (Years P–2)	
P–2	Where do frogs lay their eggs? [includes spoken instructions]	L17
P–2	Where do frogs lay their eggs?	L201
P–2	Explore water pipes [includes spoken instructions]	L18
P–2	Explore water pipes	L202
P–2	Where does tap water come from? [includes spoken instructions]	L19
P–2	Where does tap water come from?	L203
P–2	 Water use [includes spoken instructions]	L74
P–2	 Water use	L210
	Land use series (Years P–2)	
P–2	News story [includes spoken instructions]	L15
P–2	News story	L199
P–2	New developments [includes spoken instructions]	L16
P–2	New developments	L200















































P-2	 Land use [includes spoken instructions]	L73
P-2	 Land use	L209
	Light and shadows series (Years P-2)	
P-2	Light and shadows: casting shadows	L1126
P-2	Light and shadows: matching shadows	L1127
P-2	 Light and shadows	L756
2-4	Light and shadows: assessment	L9838
	Eclipses series (ESL) (Years 5-8)	
5-8	Eclipses: solar eclipse (ESL)	L10200
5-8	Eclipses: lunar eclipse (ESL)	L10201
	Shaping the land series (Years 5-10)	
5-10	Shaping the land: geological forces	L534
5-10	Shaping the land: model landforms	L535
5-10	Shaping the land: real landscapes	L536
5-10	 Shaping the land	L533
	Eclipses: assessment series (Year 7)	
Year 7	Solar eclipse: assessment	L10101
Year 7	Lunar eclipse: assessment	L10102
	Earth rotation series (Years 7-8)	
7-8	Earth rotation: night and day	L696
7-8	Earth rotation: sky watch	L1128
7-8	Earth rotation: merry-go-round	L1129
7-8	Earth rotation: stargazing	L1130
	Earth rotation series (ESL) (Years 7-8)	
7-8	Earth rotation: night and day (ESL)	L10261
	Lunar cycles series (Years 7-8)	
6-8	Lunar cycles: Moon phases	L754
6-8	Lunar cycles: Moon phases assessment	L7735
6-8	Lunar cycles: moonrise	L1131
7-8	Lunar cycles: man in the Moon	L1132
7-8	Lunar cycles: Earth glow	L1133
	Seasons: assessment series (Years 7-8)	
7-8	Seasons: daylight hours: assessment	L8967
7-8	Seasons: Earth's orbit: assessment	L8966
7-8	Seasons: Sun's energy: assessment	L8968
	Travel back in time series (Years 7-9)	
7-9	Travel back in time	L493
7-9	Travel back in time [no spoken instructions]	L497
7-9	Travel back in time: Time map	L498
	Seasons series (Years 7-10)	
7-10	Seasons: Earth and the Sun	L5775
7-10	Seasons: Earth's orbit	L5776
7-10	Seasons: latitude	L5778
7-10	Seasons: the hemispheres	L5777
7-10	 Seasons	L5774
	Seasons series (ESL) (Years 7-10)	
7-10	Seasons: Earth and the Sun (ESL)	L9112
7-10	Seasons: Earth's orbit (ESL)	L9111
7-10	Seasons: latitude (ESL)	L9109
7-10	Seasons: the hemispheres (ESL)	L9110








































The colour of water series (Years 7–10)		
7–10	The colour of water: experitank	L562
7–10	The colour of water: experitank [no spoken instructions]	L563
7–10	The colour of water: Blue Lake	L564
7–10	The colour of water: Blue Lake [no spoken instructions]	L565
7–10	The colour of water: Green Lake	L566
7–10	The colour of water: Green Lake [no spoken instructions]	L567
7–10	The colour of water: Pink Lake	L568
7–10	The colour of water: Pink Lake [no spoken instructions]	L569
7–10	The colour of water: park pond	L570
7–10	The colour of water: park pond [no spoken instructions]	L571
7–10	The colour of water: Jervis Bay	L572
7–10	The colour of water: Jervis Bay [no spoken instructions]	L573
7–10	The colour of water: Freycinet Peninsula	L574
7–10	The colour of water: Freycinet Peninsula [no spoken instructions]	L575
7–10	The colour of water: Great Barrier Reef	L576
7–10	The colour of water: Great Barrier Reef [no spoken instructions]	L577
7–10	 The colour of water	L560
7–10	 The colour of water [no spoken instructions]	L561
Tectonics investigator series (Years 7–10)		
7–10	Tectonics investigator: Earth's structure	L5827
7–10	Tectonics investigator: hot spots	L5829
7–10	Tectonics investigator: magnetic stripes	L5828
7–10	 Tectonics investigator	L5826
Tectonics investigator series (ESL) (Years 7–10)		
7–10	Tectonics investigator: Earth's structure (ESL)	L9467
7–10	Tectonics investigator: hot spots (ESL)	L9469
7–10	Tectonics investigator: magnetic stripes (ESL)	L9468
Tectonics investigator: assessment (Years 7–10)		
7–8	Tectonics investigator: Earth's structure: assessment	L10326
8–10	Tectonics investigator: plate movement: assessment	L10327
Shaping the land: assessment series (Years 8–9)		
8–9	Shaping the land: real landforms: assessment	L9836
8–9	Shaping the land: model landforms: assessment	L9837
Tectonic boundaries series (Years 9–10)		
9–10	Tectonic boundaries: challenge	L5834
9–10	Tectonic boundaries: convergent	L5832
9–10	Tectonic boundaries: divergent	L5831
9–10	Tectonic boundaries: transform	L5833
9–10	 Tectonic boundaries	L5830
Tectonic boundaries: assessment series (Years 9–10)		
9–10	Tectonic boundaries: convergent: assessment	L10329
9–10	Tectonic boundaries: divergent: assessment	L10328
9–10	Tectonic boundaries: transform: assessment	L10330
Exploring for resources series (Years 9–10)		
9–10	Exploring for resources: copper	L5924
9–10	Exploring for resources: diamonds	L5927
9–10	Exploring for resources: gold	L5923
9–10	Exploring for resources: nickel	L5925
9–10	Exploring for resources: oil	L5926

	Eclipses series (Years 9–10)	
5–8	Eclipses: lunar eclipse	L5781
5–8	Eclipses: solar eclipse	L5780
5–8	 Eclipses	L5779
	Content from other sources	
	Down to Earth series (Years 5–9)	
5–8	Down to Earth: paleotraveller	L925
8–10	Down to Earth: rock back in time	L926
5–8	Down to Earth: metals matter	L927
	Exploring Earth's structure (Years 5–9)	
5–9	Exploring Earth's structure: Earth probe	L3067
	Get into geology series (Years 5–12)	
5–12	Get into geology	L3063
5–12	Get into geology: tools of the trade	L3064
5–12	Get into geology: what rock is that?	L3065
5–12	Get into geology: superposition puzzle	L3066
	Following the Moon (Years 5–9)	
5–9	Following the Moon: eclipses and shadows	L3068
	The wonders of our universe (Years 5–9)	
5–9	The wonders of our universe: space traveller	L3069
	The secret of Itsall Mine (Years 9–12)	
9–12	The secret of Itsall Mine	L3013
	Digital resources	
Type	Resource	TLF ID
	Australian Children's Television Foundation	
	'I Think ...' – Above and beyond	R6069
	'I Think ...' – The wheel turns	R6068
	Australian Voices	
	Andy Thomas describes being a cosmonaut, 2008	R9903
	Andy Thomas describes his first flight into space, 2008	R9901
	Andy Thomas discusses recreation on Mir, 2008	R9902
	Andy Thomas speaks of Australia's space program, 2008	R9904
	John Teniswood recalls the 'Black Tuesday' bushfires, 2005	R8819
	Kerry Alcock describes his Cyclone Larry experience, 2008	R8856
	Trevor Smith discusses dealing with droughts, 2008	R8857
	australianscreen online	
	A Big Country – The Challenge of Lake Eyre, 1978: Just like 3,000 years ago	R7508
	A Trip Along the River Murray, 1925: Irrigation construction and equipment	R7669
	From the Bush to the Bungalow, 1920: Chopping down a tree	R7328
	From the Bush to the Bungalow, 1920: Logs treated at the mill	R7330
	From the Bush to the Bungalow, 1920: Mill township	R7331
	From the Bush to the Bungalow, 1920: Timber carted to the mill	R7329
	Island Fettleers, 2006: Heat of the Pilbara – 'white with salt'	R7301
	Catalyst – Planet of the Rings, 2005: The end of an era	R7408
	Colin Johnson – Maitland Floods, 1955: The muddy aftermath	R7266
	Colin Johnson – Maitland Floods, 1955: Wading through the floods	R7265
	Four Corners – We'll All Be Rooned, 1982: A town is dying	R9269
	Four Corners – We'll All Be Rooned, 1982: Of droughts and flooding rains	R9271
	Keith Bushnell – Cyclone Tracy Aftermath, 1974: The army arrives	R7417
	Konrad Dimpel – Burned Out Fields Around My Walking Ways, 2003: The 2003 Canberra bushfires	R7419

	Living Country, 2005: Somewhere special	R9277
	Loggerheads, c1990: Forest justification	R7285
	Loggerheads, c1990: Loggers versus greenies	R7286
	Nature of Australia – A Separate Creation, 1989: ‘Separate and different’	R9099
	Nature of Australia – Land of Flood and Fire, 1988: Walking on water	R9096
	Nature of Australia – The Sunburnt Country, 1989: A master of camouflage	R9098
	Nature of Australia – The Sunburnt Country, 1989: The dead heart	R9097
	Paper Trail, the Life and Times of a Woodchip, 1991: Unprotected forests in danger	R7215
	The Back of Beyond, 1954: Cooper Creek in flood	R8495
	The Back of Beyond, 1954: The Birdsville Track	R8494
	The Changing Face of Australia, 1970: Signs of life	R8268
	The Changing Face of Australia, 1970: Uluru	R8269
	The Forerunner, 1957: Flood and drought	R8892
	The Franklin Wild River, 1980: Australian wilderness	R7109
	The Origin of Oil, c1923: Digging an oil well	R8253
	Walking through a Minefield, 1999: The right to protest	R7047
	Walking through a Minefield, 1999: Uranium blockade	R7046
	CSIRO	
	Eucalypt bark and bushfires, 2000	R9191
	Separation of Australia and Antarctica	R8945
	Getty Images	
	A geyser in Iceland, 2002	R8480
	Aerial view of Mt Pinatubo, 1997	R8365
	An avalanche in Spain	R8438
	An avalanche in the Karakoram Range, 2004	R8437
	Australian astronaut Andrew Thomas, 2005	R10124
	Banda Aceh, six weeks after the 2004 tsunami	R8370
	Banda Aceh, three weeks after the 2004 tsunami	R8371
	Bare logging forest, 2006	R8425
	Clyde Shell oil refinery, 2007	R8411
	Firefighter battles grassfire, Queensland, 2007	R8376
	Humans step onto the moon, 1969	R8417
	Icebergs in Paradise	R8414
	Aurora australis, 2005	R8763
	Aurora borealis	R8764
	Earth viewed from space	R8363
	Edmund Hillary and Tenzing Norgay after climbing Mount Everest, 1953	R8418
	Edwin (‘Buzz’) Aldrin during the first Moon landing, 1969	R8416
	Lightning above Sydney Opera House	R8360
	Lightning in Kakadu National Park	R8359
	Meteor	R8361
	Meteorite from Mars	R8362
	Record low water levels in Hume Reservoir, 2007	R9616
	Indonesia’s Mount Merapi, 2006	R8366
	Lake dries due to drought, 2006	R8378
	Lava flowing from Mount Etna, 2006	R8364
	Mount Arthur North coalmine, 2006	R8412
	Mudflow from Mount Ruapehu, 2007	R8368
	Quake line near Meckering, 1968	R8439
	Southern Thailand, a week after the 2004 tsunami	R8372







	The San Andreas Fault, California	R8440
	Whakaari (White Island), 1999	R8367
	Yallourn Power Station at dusk	R8413
	Museum of New Zealand Te Papa Tongarewa	
	Gold nugget	R1785
	Museum Victoria	
	Cranbourne meteorite	R6877
	National Archives of Australia	
	Aluminium ingots, 1970	R3554
	Gove alumina refinery, 1971	R3553
	Natural rock arch formation, Sorrento, 1945	R3185
	Weipa bauxite survey, 1958	R3552
	National Film and Sound Archive	
	Australia's mineral wealth, 1934 – asset 1	R5605
	Australia's mineral wealth, 1934 – asset 2	R5606
	Australia's mineral wealth, 1934 – asset 3	R5607
	Australia's mineral wealth, 1934 – asset 4	R5609
	Australia's mineral wealth, 1934 – asset 5	R5610
	Australia's mineral wealth, 1934 – asset 6	R5611
	Australia's mineral wealth, 1934 – asset 7	R5612
	Australia's mineral wealth, 1934 – asset 8	R5613
	Australia's mineral wealth, 1934 – asset 9	R5614
	Australia's mineral wealth, 1934 – asset 10	R5615
	Australia's mineral wealth, 1934 – asset 11	R5673
	Australia's mineral wealth, 1934 – asset 12	R5683
	Australia's mineral wealth, 1934 – asset 13	R5686
	Australia's mineral wealth, 1934 – asset 14	R5688
	Australia's mineral wealth, 1934 – asset 15	R5689
	Australia's mineral wealth, 1934 – asset 16	R5692
	Australia's mineral wealth, 1934 – asset 17	R5695
	Australia's mineral wealth, 1934 – asset 18	R5696
	Big flood in the outback, 1962 – asset 1	R5102
	Big flood in the outback, 1962 – asset 2	R5103
	Big flood in the outback, 1962 – asset 3	R5104
	Damage from Cyclone Connie, 1959 – asset 1	R5556
	Damage from Cyclone Connie, 1959 – asset 2	R5557
	Distilling eucalyptus oil in 1929	R3127
	Felling giant karri in Western Australia in 1929	R2445
	Flooding in Brisbane, 1974 – part 1 of 4	R5080
	Flooding in Brisbane, 1974 – part 2 of 4	R5083
	Flooding in Brisbane, 1974 – part 3 of 4	R5085
	Flooding in Brisbane, 1974 – part 4 of 4	R5086
	Growing cotton in Queensland – asset 1	R2141
	Growing cotton in Queensland – asset 2	R2142
	Growing custard apples in the 1920s	R1978
	Growing pawpaws and strawberries in the 1920s	R1979
	Growing pineapples at Victoria Point	R1976
	Harvesting eucalyptus in 1929	R3126
	Karri logs at the sawmill in 1929	R2447
	Lucerne stacks at Murray Bridge	R2065








	Making hay using tractors	R1896
	New South Wales floods, 1954 – asset 1	R4587
	New South Wales floods, 1954 – asset 2	R4589
	New South Wales floods, 1954 – asset 3	R4590
	New South Wales floods, 1954 – asset 4	R4591
	Opal mining at Lightning Ridge, c1925	R2744
	Picking oranges	R2158
	Ploughing for wheat and harvesting	R1895
	Radium Hill, 1962 – asset 1	R5690
	Radium Hill, 1962 – asset 2	R5691
	Radium Hill, 1962 – asset 3	R5693
	Record flood at Home Hill, 1958	R5752
	Rice growing in Australia	R2246
	Stacking lucerne	R2064
	Sydney heatwave, 1960 – asset 1	R4561
	Sydney heatwave, 1960 – asset 2	R4567
	Sydney heatwave, 1960 – asset 3	R4570
	The Forerunner, 1957 – Maitland floods in 1955, item 1	R5536
	The Forerunner, 1957 – Maitland floods in 1955, item 2	R5537
	The Forerunner, 1957 – Maitland floods in 1955, item 3	R5538
	The Forerunner, 1957 – Maitland floods in 1955, item 4	R5539
	The Forerunner, 1957 – Maitland floods in 1955, item 5	R5541
	Transporting giant karri logs in 1929	R2446
	Using a rotary hoe to grow oranges	R2156
	'Window into space', 1965 – asset 1	R5758
	'Window into space', 1965 – asset 2	R5759
	'Window into space', 1965 – asset 3	R5760
	'Window into space', 1965 – asset 4	R5762
	National Library of Australia	
	Dry weather in Melbourne, 1882	R4649
	News Limited	
	Murray River in crisis, 2008	R9617
	Powerhouse Museum	
	Australia Telescope Compact Array, 1988 – asset 1	R5892
	Australia Telescope Compact Array, 1988 – asset 2	R5893
	Australia Telescope Compact Array, 1988 – asset 3	R5901
	Australia Telescope Compact Array, 1988 – asset 4	R5902
	Dryland salinity at Boorowa, 2001	R4614
	Ghost galaxy NGC2915	R5899
	Giant radio galaxy J0116-473	R5897
	Hydrogen void in our galaxy, 2002	R5896
	Jupiter at radio wavelengths (two views), 1998	R5894
	Large Magellanic Cloud, 2002	R5898
	Radio image of the Circinus Galaxy, 2002	R5895
	Supernova remnant in the Small Magellanic Cloud, 2002	R5900
	Scitech	
	A barred spiral galaxy, NGC 1365	R10139
	A mass-loss star	R10135
	A spiral galaxy in Antlia, NGC 2997	R10138
	A wide-angle view of the Milky Way during a total eclipse of the Moon	R9827


	Accretion disc pulling matter from a companion star	R9626
	Antares	R10131
	Antares and the Rho Ophiuchi dark cloud	R10144
	Astronomical observatories at Mauna Kea, Hawaii	R9822
	Aurora australis and star trails	R10145
	Comet Hyakutake approaches Earth, March 1996	R9825
	Comet McNaught above Perth, January 2007	R9826
	Cooke sun clock, 1924	R9666
	Corona Australis nebula	R10143
	Deep Space Communication network, Tidbinbilla, Australia	R9823
	Eclipse of the Moon	R9824
	Galactic merger	R9629
	Galactic starbursts	R9632
	Galaxies and the large scale of the universe	R9624
	Galaxy formation	R9625
	Horsehead nebula	R10128
	Keck optical telescope, Mauna Kea, Hawaii	R9820
	Large Magellanic Cloud, Supernova 1987A and Comet Wilson	R9831
	Leonid meteor shower above 'The Pinnacles', Western Australia, 1998	R9830
	Map of the cosmic background radiation	R9635
	Mars and its moon Phobos	R9628
	NASA's IRTF Infra-red telescope facility, Mauna Kea, Hawaii	R9821
	Nebulas in Orion	R10129
	Refractor telescope	R9665
	Stellar spectrograph, 1910–15	R9663
	Sunset 'star' trails	R10146
	Supernova 1987A – before and after views	R10141
	Sydney Observatory's time ball, 1858	R9664
	The Cartwheel, interacting galaxies in Sculptor	R10140
	The light echo of supernova 1987A	R10142
	The Sombrero galaxy, M104, NGC 4594	R10136
	The Trifid nebula, NGC 6514	R10137
	Thomas Earnshaw's marine chronometer 520	R9667
	State Library of Queensland	
	Blasting at Mount Isa Mines, 1962	R8929
	Banana crops ruined by Cyclone Larry, Innisfail, 2006	R9201
	Flooding in Brisbane CBD, 1974 – part 1 of 2	R8920
	Flooding in Brisbane CBD, 1974 – part 2 of 2	R8921
	Flooding in Brisbane, 1893 – asset 1	R8626
	Flooding in Brisbane, 1893 – asset 2	R8627

Life and living

Learning objects























Years	Learning object	TLF ID
	Garden detective series (Years P–2)	
P–2	Garden detective: Australian garden	L699
P–2	Garden detective: explore a New Zealand garden	L1182
P–2	 Garden detective: explore an Australian garden	L1118
P–2	Garden detective: group Australian animals	L1119
P–2	Garden detective: group New Zealand animals	L1183
P–2	 Garden detective: New Zealand garden	L1181
	Food chains series (Years P–2)	
P–2	Food chains: the desert	L1143
P–2	Food chains: the farm	L1145
P–2	Food chains: the forest	L1146
P–2	Food chains: the town	L894
P–2	Food chains: the wetlands	L1144
P–2	Food chains: what is a food chain?	L1147
	Animal search series (ESL) (Years 1–2)	
1–2	Animal search: is it a fish? (ESL)	L8554
1–2	Animal search: is it a mammal? (ESL)	L8551
1–2	Animal search: is it a reptile? (ESL)	L8552
1–2	Animal search: is it an amphibian? (ESL)	L8553
	Animal search series (Years 1–4)	
1–2	Animal search: is it a fish?	L1137
1–2	Animal search: is it a mammal?	L766
1–2	Animal search: is it a reptile?	L1135
1–2	Animal search: is it an amphibian?	L1136
1–2	 Animal search	L1134
	Food chains: assessment series (Years 3–4)	
3–4	Food chains: wetlands: assessment	L9953
3–4	Food chains: desert: assessment	L9955
3–4	Food chains: forest: assessment	L9954
	Human body series (Years 3–4)	
3–4	Take a deep breath	L21
3–4	Superhuman	L22
3–4	In digestion	L1
3–4	Fish out of water	L23
3–4	 Human body	L64
	Plant life series (Years 3–4)	
3–4	What on Earth?	L30
3–4	Plant scan	L31
3–4	 Plant life	L66
	Surviving in a habitat series (Years 3–4)	
3–4	Who lives here?	L24
3–4	Who's for dinner?	L25
3–4	Platypus life cycle	L28
3–4	Alien life form	L29
3–4	 Surviving in a habitat	L65
	Human impact series (Years 3–4)	
3–4	Old Bernie's story	L26
3–4	Old Bernie's pond	L27
3–4	Why recycle?	L32


3–4	Earth alert	L33
3–4	 Human impact	L67
	Animal search: assessment series (Years 3–5)	
3–4	Animal search: is it a mammal: assessment	L9176
3–4	Animal search: is it a reptile: assessment	L9177
3–4	Animal search: is it an amphibian: assessment	L9178
4–5	Animal classification: assessment	L9179
	Frog pond habitat series (Years 3–9)	
3–6	Environmental field project: frog pond habitat	L419
5–9	Environmental evaluation project: frog pond habitat	L418
	Create a creature series (Years 5–6)	
5–6	Create a creature: my creature	L1123
5–6	Create a creature: match a creature	L1124
5–6	Create a creature: find a home	L1125
5–6	 Create a creature	L755
	Eyeball challenge series (Years 5–8)	
5–8	Eyeball challenge: eye facts	L442
5–8	Eyeball challenge: wall tile puzzle	L443
5–8	Eyeball challenge: rock bridge puzzle	L446
5–8	Eyeball challenge: killer bees puzzle	L447
5–8	 Eyeball challenge: mission 1	L441
5–8	Eyeball challenge: door keys puzzle	L444
5–8	Eyeball challenge: stone wheel puzzle	L445
5–8	Eyeball challenge: slingshot puzzle	L1187
5–8	 Eyeball challenge: mission 2	L542
	Bacteria zoo series (Years 5–8)	
5–8	Bacteria zoo: the zoo	L529
5–8	Bacteria zoo: the zoo [no spoken instructions]	L530
5–8	Bacteria zoo: collect new specimens	L531
5–8	Bacteria zoo: collect new specimens [no spoken instructions]	L532
5–8	Bacteria zoo: significant species	L1519
5–8	 Bacteria zoo	L527
5–8	 Bacteria zoo [no spoken instructions]	L528
	Dugong dilemma series (Years 7–9)	
7–9	Dugong dilemma: assessment	L7734
	Genes series (Years 9–10)	
9–10	Genes: introduction to genes	L5918
9–10	Genes: what is DNA?	L5919
9–10	Genes: DNA replication	L5920
9–10	Genes: gene splicing	L5922
9–10	Genes: protein synthesis	L5921
9–10	 Genes	L5917
	Genes: assessment series (Years 10–11)	
10–11	Cell division and DNA: assessment	L9839
10–11	Introduction to genes: assessment	L9840
	Life cycles series (Years P–4)	
P–4	Life cycles: birds	L1361
P–4	Life cycles: butterflies	1358
P–4	Life cycles: crocodiles	L1359
P–4	Life cycles: flowers	L1360
P–4	Life cycles: gum trees	L1363
P–4	Life cycles: whales	L1364





















































P-4	 Part of a pattern	L1472
	Animal groups series (Years P-4)	
P-4	Animal groups: at the zoo 1	L1355
P-4	Animal groups: at the zoo 2	L1356
	The place that's right for me (Years P-4)	
P-4	The place that's right for me	L1471
	Body systems (Years 3-4)	
3-4	Bones in our skeletal system	L7574
3-4	Organs in our digestive system	L7579
	Body parts series (Years 5-7)	
5-7	Body parts: blood	L717
5-7	Body parts: digestive system	L719
5-7	Body parts: endocrine system	L720
5-7	Body parts: hearing	L721
5-7	Body parts: heart and circulation	L722
5-7	Body parts: immune system	L723
5-7	Body parts: kidneys and bodily fluids	L724
5-7	Body parts: muscles	L725
5-7	Body parts: respiratory system	L726
5-7	Body parts: skeleton	L727
5-7	Body parts: skin	L728
5-7	Body parts: teeth	L730
5-7	Body parts: vision	L731
	Aches and pains series (Years 5-7)	
5-7	Aches and pains: acne	L732
5-7	Aches and pains: asthma	L733
5-7	Aches and pains: breaks and fractures	L734
5-7	Aches and pains: cancer	L735
5-7	Aches and pains: colds and flu	L736
5-7	Aches and pains: diabetes	L737
5-7	Aches and pains: epilepsy	L738
5-7	Aches and pains: headaches	L739
5-7	Aches and pains: high blood pressure	L740
5-7	Aches and pains: sore ears	L741
5-7	Aches and pains: stomach pains	L742
5-7	Aches and pains: taste and smell	L729
5-7	Aches and pains: tonsillitis	L743
	Rainforest life series (Years 5-8)	
5-8	Rainforest life: identifying living things	L3079
5-8	Rainforest life: interaction with living things	L3080
5-8	Rainforest life: looking at cells	L3081
	Feral peril (Years 5-8)	
5-8	Feral peril	L1357
	Microscopes (Years 5-8)	
5-9	Microscopes	L3082
5-6	What can you see under the microscope?	L7572
	The transport system in a plant (Years 5-8)	
5-6	The transport system in a plant	L7573
	Ecosystem balance (Years 5-10)	
5-10	Ecosystem balance	L1446
	Eco series (Years 6-10)	
6-10	Eco forest	L10764







































6–10	Eco farm	L10765
	Osmosis in potatoes (Years 7–8)	
7–8	Osmosis in potatoes	L7571
	Effects of light intensity on photosynthesis (Years 7–8)	
7–8	Effects of light intensity on photosynthesis	L7577
	EagleCat: plants (Years 8–10)	
8–10	EagleCat: plants	L10082
	EagleCat: cell division (Years 10–12)	
11–12	EagleCat: cell division	L10083
	ExploreLearning series (Years 11–12)	
11–12	Life science: Evolution: mutation and selection	L9000
11–12	Life science: Evolution: natural and artificial selection	L9004
11–12	Life science: Mouse genetics: one trait	L8990
11–12	Life science: Mouse genetics: two traits	L8980
11–12	Life science: Chicken genetics	L8991
11–12	Life science: Hardy–Weinberg Equilibrium	L8996
11–12	Life science: Microevolution	L8999
11–12	Life science: Photosynthesis	L8982
11–12	Life science: Diffusion	L8986
11–12	Life science: Osmosis	L8987
11–12	Life science: Cell division	L8989
11–12	Life science: Homeostasis	L8998
11–12	Life science: Drug dosage	L9003
11–12	Life science: Greenhouse	L8977
11–12	Life science: Germination	L8978
11–12	Life science: Food chain	L8979

Digital resources





Type	Resource	TLF ID
	Australian Children’s Television Foundation	
	‘I Think ...’ – Beneath the skin	R6318
	‘I Think ...’ – Cycle of life	R8395
	‘I Think ...’ – Once I grew	R6066
	‘Lift Off’ – Upwardly mobile frogs	R6755
	Australian Museum	
	Archival image of an ocean sunfish	R8516
	Dinosaur trackways near Winton, Queensland	R8810
	Ethel King painting a groper specimen, 1926	R8813
	Excavating a fossilised Diprotodon skeleton, 1979	R8812
	Fangs of a Brown Tree Snake, ‘Boiga irregularis’	R9605
	Friiled Lizard, ‘Chlamydosaurus kingii’	R9604
	Greater Bilby, ‘Macrotis lagotis’	R9612
	Gould’s Long-eared Bat in flight	R8789
	Juvenile Perentie Lizard, ‘Varanus gigantus’	R9706
	Mating seahorses, ‘Hippocampus whitei’	R9705
	Mounted specimen of a thylacine	R8788
	Numbats, ‘Myrmecobius fasciatus’	R9614
	Opalised lower jaw of Steropodon	R8809
	Scientific reconstruction of a Diprotodon	R8811
	Scientific reconstruction of a Minmi dinosaur	R8787
	Southern corroboree frog	R8517
	Study skin of an eastern quoll	R8514
	Sugar Glider, ‘Petaurus breviceps’	R9613



















































	Trilobite fossil from Queensland	R8518
	Wet specimen of a coelacanth	R8515
	X-ray of the head of a Snapper, 'Pagrus auratus'	R9615
	Australian Voices	
	Mick Ratcliff recalls the Menindee Lakes disaster, 2006	R8835
	australianscreen online	
	A Voice for the Wilderness, 1983: Wilderness	R7501
	Austin Hospital at Heidelberg, 1928: Wards for consumption sufferers	R9259
	Australasian Gazette, 1926: Prickly pear infested areas of Australia	R7476
	Australia Today – Man-Eater, 1939: 'Silent terror of the deep'	R7642
	Australia Today – Man-Eater, 1939: Hunting shark	R7643
	Big Girls Don't Cry, 2002: A new kidney	R7982
	Catalyst – Genius of Junk, 2003: Junk into gold	R7410
	Catalyst – Genius of Junk, 2003: Triumph and tragedy	R7409
	Catalyst – The Antarctic Peninsula, 2006: Welcome to Seymour Island	R7407
	Catalyst – Wollemi Pine, 2005: The secret garden	R8258
	Compass – Paws for Thought, 2000: Do animals feel?	R9306
	Dugong Dugong, 1980: The hunt	R9295
	Echidna the Survivor, 1995: Echidna birth	R7357
	Echidna the Survivor, 1995: Spike the monotreme	R7356
	Eco House Challenge – Emission Impossible, 2007: In a bind	R9314
	Eco House Challenge – Stop Your Gassing, 2007: Two Aussie families	R9316
	Give Trees a Chance: The Story of Terania Creek, 1980: Trees get a chance	R7323
	Homes for Crippled Children, c1940: Rehabilitation	R10235
	Jewel of the Pacific, 1932: The rat's tale	R10026
	Life on a Sheep Farm, 1965: The rabbit plague	R7291
	Lobster tales, 1998: Life stages of the lobster	R7287
	Lobster tales, 1998: Octopuses also enjoy fresh lobster	R7288
	Nature of Australia – A Separate Creation, 1989: That bizarre creature, the platypus	R9095
	Port Botany – A Planning Dilemma, 1979: Environmental impacts	R8976
	Snow ... Down Under, 1982: Snow wombat	R7176
	Terrible Lizards of Oz, 2004: 'A real lost world'	R7989
	The Last Husky, 1993: Emperor penguin rookery	R7723
	The Last Husky, 1993: Mush	R7730
	Timber, 1947: An organised destruction	R8266
	When the Lights Go Out – Cockroaches, a Domestic History, 1994	R7037
	Wicked Science – The Gift Episode 1, 2003: Cloning a dodo	R7940
	Wicked Science – The Gift Episode 1, 2003: She mixed axolotl DNA with T-Rex DNA	R7941
	CSIRO	
	A grasshopper on a partially eaten leaf	R4189
	A longicorn beetle on leaf litter	R4904
	A native cicada, the bladder cicada	R4187
	Aboriginal wetland burning in Kakadu, 2005 – part 1 of 3	R9851
	Aboriginal wetland burning in Kakadu, 2005 – part 2 of 3	R9862
	Aboriginal wetland burning in Kakadu, 2005 – part 3 of 3	R10323
	Adult bogong moth	R4520
	Adult centipede	R5373
	Adult Christmas beetle feeding on foliage	R3476
	Adult cicada	R4521
	Adult hawk moth	R4132
	Adult katydid	R4682
	Adult male white-stemmed gum moth	R4820

	Adult of the yellow Monday cicada	R4522
	Adult robber fly feeding	R3468
	Adult robber fly scientific illustration	R3471
	Adult sawfly	R4680
	'Amerila rubripes' moth	R5571
	Ant-mimicking spider	R5625
	Arresting cancer, 2001	R10119
	Australian sheep blowfly	R4907
	Black Portuguese millipede	R5377
	Botany Bay diamond weevil	R5628
	Bridal creeper, 2002	R9192
	Bristles of the white-stemmed gum moth	R4822
	Broodcomb of the honey bee	R 3489
	Bull ant queen	R4671
	Bull ant worker	R5627
	Bush flies as a nuisance to humans	R3473
	Bush fly scientific illustration	R3472
	Breeding kuruma prawns	R8655
	Cane toad advance, 2002	R9196
	Cellulose, 1998	R8956
	Collecting rats	R8650
	Collecting termites, 2003 – part 1 of 2	R9853
	Collecting termites, 2003 – part 2 of 2	R9900
	Controlling foxes, 2000	R8934
	Coral spawning, 1998	R8954
	CSIRO's Australian Animal Health Laboratory	R9844
	Defensive frill-necked lizard	R8648
	Fear no weevil, 2000	R9190
	Fish oil and heart attack, 2000	R8665
	How the cashew grows	R8943
	Identifying insects from genitalia	R8656
	Indian mynas	R8935
	Native bees	R8658
	Rabbit calicivirus, 1999	R8647
	Studying gene evolution using corals, 1998	R8955
	Threats to cassowary survival	R8646
	Caterpillar of the Cairns birdwing butterfly	R4140
	Caterpillar of the orchard butterfly	R4135
	Caterpillar of the Ulysses butterfly resting on a leaf	R4137
	Caterpillar of the white-stemmed gum moth	R4819
	Cocoon of the white-stemmed gum moth	R4821
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	Common mud dauber wasp in profile	R4002
	Compound eye of a moth	R4134
	Congregation of spitfire larvae on a host plant	R4004
	Cricket	R4186
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	Damselfly larva	R3643
	Damselfly nymph	R4684
	Development of common methana, the black bark cockroach	R3647
	Dorsal and ventral views of male Ulysses butterflies	R4142
	Dragonfly habitat, Tidbinbilla River	R4817














































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	Dung beetles on cow dung	R4909
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	Egg of an orchard butterfly	R4224
	Egg of the Richmond birdwing butterfly	R4139
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	Empty shell of a cicada nymph	R4908
	European green crab invasion	R8654
	European wasp	R4911
	European wasps in a nest	R4910
	Examining bush debris for insects	R4664
	Fangs, palps and mouthparts of a spider	R5796
	Female and male praying mantids	R3479
	Female blue-ant	R5626
	Female Godeffroy's wolf spider with egg sac	R5376
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	Female Hercules moth	R4130
	Female potter wasp grasping a caterpillar	R5624
	Female spiny leaf insect	R3646
	Female spiny leaf insect on a leaf	R3649
	Female spitfire in profile	R3997
	Female whitetailed spider	R5635
	Funnel web spider	R5370
	Gene silencing by RNA interference, 2005	R9859
	Genes and rust disease, 2004	R9856
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	Swarm of adult Christmas beetles feeding on foliage	R3477
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	Aquarium GloFish pets	R8426
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	Biolistic system for injecting genes, 1992	R8339
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	Internal cell structure	R8338
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	Hematopoietic stem cells isolated from human bone marrow	R8767
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National Archives of Australia		
	A flying fox or fruit bat in 1966	R2776
	A herd of domesticated water buffaloes, 1958	R3021
	A short-beaked echidna in water, 1966	R3023
	A two-year-old brumby in 1947	R2818
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	Fire lookout in karri forest, 1966	R3555
	Giant freshwater prawn, 1973	R3018
	Giant Gippsland earthworm, 1945	R2815
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	Lumholtz's tree kangaroo in a zoo, 1987	R2921
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	Southern short-nosed bandicoots, 1958	R3019
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	Camel trains in the north	R2109
	Child polio victims, 1941 – asset 1	R5122
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	Consignment of whalebone on the wharf at Eden, early 1900s	R3582
	Twofold Bay whaling, early 20th century	R3043
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	Phar Lap's Heart, 1932	R10668
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	Thylacine pelt, 1930	R10659
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	Forest clear-felling, c1905	R3594
	IVF embryo freezing	R4379
	Relaxin birth hormone	R4543
State Library of Queensland		
	Humpback whale carcass, Tangalooma Whaling Station, c1957 – item 1 of 2	R8170
	Humpback whale carcass, Tangalooma Whaling Station, c1957 – item 2 of 2	R8169
	Schoolboy being vaccinated against diphtheria in Brisbane, 1940	R9656


Natural and processed materials

Learning objects

Years	Learning object	TLF ID
	Kitchen chemistry series (Years 3–4)	
3–4	Kitchen chemistry: experiment: level 1	L2367
5–6	Kitchen chemistry: experiment: level 2	L2368
3–4	Kitchen chemistry: mystery: level 1	L2369
5–6	Kitchen chemistry: mystery: level 2	L2370
3–4	 Kitchen chemistry: experiment and mystery: level 1	L2365
5–6	 Kitchen chemistry: experiment and mystery: level 2	L2366
	Mystery substance series (Years 3–6)	
3–6	Mystery substances: training	L2360
3–4	Mystery substances: your first case	L2361
5–6	Mystery substances: find the culprit	L2362
3–6	Mystery substances: emergency case	L2363
5–6	Mystery substances: mixed substances	L2364
3–6	 Mystery substance: pure substances	L2358
5–6	 Mystery substance: pure and mixed substances	L2359
	Chemical science series (Years 5–6)	
5–6	Life without chemistry	L34
5–6	Slime emergency	L35
5–6	Mine rescue	L36
5–6	Metal munchers	L37
5–6	Metal munchers: assessment	L7557
5–6	Save the lake	L38
5–6	Skateboard race	L39
5–6	Grumpy in the desert	L40
5–6	Inter-galactic cook-off	L41
5–6	Going down and burning up	L42
5–6	Treasure puzzle	L43
	Matter: assessment series (Years 5–9)	
5–7	Matter: evaporation: assessment	L9956
8–9	Matter: change of state: assessment	L9957
	Plastics series (Years 7–8)	
7–8	Plastics: electric kettle	L2527
7–8	Plastics: helmet	L2528
7–8	Plastics: egg-lifter	L2529
7–8	Plastics: shoe soles	L2530
7–8	 Plastics	L2526
	Plastics series (ESL) (Years 7–8)	
7–8	Plastics: electric kettle (ESL)	L10196
7–8	Plastics: helmet [ESL]	L10197
7–8	Plastics: egg-lifter [ESL]	L10198
7–8	Plastics: shoe soles [ESL]	L10199
	The elements series (Years 7–8)	
7–8	The elements: find the elements	L2550
7–8	The elements: classify elements	L2551
7–8	The elements: elements analyser	L2552
7–8	The elements: mystery elements	L2553
7–8	The elements: fill the gaps	L2554
7–8	 The elements	L2293

	The elements: assessment series (Years 7–10)	
7–8	The elements: elements and compounds: assessment	L9669
9–10	The elements: the periodic table: assessment	L9670
	The elements series (ESL) (Years 7–8)	
7–8	The elements: find the elements (ESL)	L9131
7–8	The elements: elements analyser (ESL)	L9132
7–8	The elements: mystery elements (ESL)	L9133
7–8	The elements: fill the gaps (ESL)	L9134
	Types of matter series (Years 7–8)	
7–8	Types of matter: compounds and mixtures	L5824
7–8	Types of matter: elements and compounds	L5823
7–8	Types of matter: particles	L5820
7–8	Types of matter: pure substances and mixtures	L5822
7–8	Types of matter: quiz	L5825
7–8	Types of matter: solids, liquids and gases	L5821
	Types of matter series (ESL) (Years 7–8)	
7–8	Types of matter: particles (ESL)	L9388
7–8	Types of matter: solids, liquids and gases (ESL)	L9389
	Types of matter: assessment series (Years 7–10)	
9–10	Types of matter: using particle model: assessment	L8970
7–8	Types of matter: solids, liquids and gases: assessment	L8986
	pH series (Years 7–9)	
7–9	pH: acids and bases	L5814
7–9	pH: aquarium	L5817
7–9	pH: changing pH	L5819
7–9	pH: noughts and crosses	L5816
7–9	pH: pool	L5818
7–9	pH: what is pH?	L5815
7–9	pH: scale: assessment	L8489
	Chemical reactions series (Years 9–10)	
9–10	Chemical reactions: combustion	L2568
9–10	Chemical reactions: non-combustion	L2569
9–10	Chemical reactions: balancing equations	L2570
9–10	Chemical reactions: energy	L2571
9–10	Chemical reactions: energy released by fuel	L2572
9–10	Chemical reactions: reaction reshuffle	L2573
9–10	 Chemical reactions	L2296
	Sunscreens (Years 9–10)	
9–10	Sunscreens: what's the fuss about 30+?	L703
	UV index series (Years 9–10)	
9–10	UV index: simulator	L1138
9–10	UV index: the highs and lows	L1139
	Content from other sources	
	Making water drinkable series (Years 5–9)	
5–9	Making water drinkable: mixtures	L3100
5–9	Making water drinkable: water and us	L3102
5–9	Making water drinkable: water treatment	L3103
5–9	Making water drinkable: colloids	L3104
5–9	Making water drinkable: water cycle jigsaw	L3105
5–9	 Making water drinkable	L3198


































What the world is made of series (Years 5–9)





















































5–9	What the world is made of: states of matter	L3249
5–9	What the world is made of: sorting matter	L3250
5–9	What the world is made of: modelling matter	L3251
5–9	What the world is made of: changes of state	L3252
5–9	What the world is made of: properties of liquids	L3253
5–9	What the world is made of: particles, heat and movement	L3254
5–9	 What the world is made of	L3070













Chemical tests (Years 7–8)

7–8	Mixing two compounds	L7568
7–8	Solubility and temperature	L7569
8–10	Sonic motion: living earth	L890

Digital resources








Type	Resource	TLF ID
	Australian Children’s Television Foundation	
	Alphonse the Independent ATOM	R7804
	australianscreen online	
	Four Corners – Blue Death, 1988: A family tragedy	R9173
	Four Corners – Blue Death, 1988: It could have been avoided	R9169
	Sheep to Shop – Hosiery and Knitted Goods, 1924: From fleece to yarn	R9256
	CSIRO	
	Carbon dioxide geosequestration	R9753
	Digesting the facts on genetic modification – part 1 of 2	R9845
	Digesting the facts on genetic modification – part 2 of 2	R9861
	Genetically modified organisms, 1999	R9194
	Filtering exhaust gases, 1999	R8960
	Finding bacteria to degrade pesticides	R8931
	Genetically modified food, 1999	R9195
	Making biodegradable plastic, 2001	R8961
	Measuring pH	R8942
	Plastic solar cells	R9755
	Purifying with plastics	R9846
	Synthesising natural compounds for cosmetics	R8659
	Curriculum Corporation	
	Acetaldehyde molecule	R6970
	Acetol molecule	R6973
	Acetone molecule	R6975
	Acetylene molecule	R6960
	Ammonia molecule	R6848
	Benzene molecule	R6966
	Boron tribromide molecule	R6939
	Boron trichloride molecule	R6940
	Boron trifluoride molecule	R6941
	Boron triiodide molecule	R6942
	Bromine molecule	R6982
	Bromine monochloride molecule	R6853
	Bromine monofluoride molecule	R6854
	Carbon dioxide molecule	R7522
	Carbon disulfide molecule	R6991
	Carbon suboxide molecule	R7523
	Carbon tetrabromide molecule	R6943









	Carbon tetrachloride molecule	R6944
	Carbon tetrafluoride molecule	R6945
	Carbon tetraiodide molecule	R6946
	Chlorine molecule	R6983
	Chlorine monofluoride molecule	R6855
	Chloroform molecule	R6969
	Chloromethane molecule	R6968
	Dibromine monoxide molecule	R7520
	Dichlorine monoxide molecule	R7521
	Dimethyl ether molecule	R6971
	Disilane molecule	R6955
	Disulfane molecule	R6846
	Ethane molecule	R6962
	Ethanol molecule	R6972
	Ethylene molecule	R6961
	Fluorine molecule	R6984
	Formaldehyde molecule	R6978
	Formic acid molecule	R6977
	Hydrazine molecule	R6849
	Hydrogen bromide molecule	R6858
	Hydrogen chloride molecule	R6859
	Hydrogen cyanide molecule	R6851
	Hydrogen fluoride molecule	R6860
	Hydrogen iodide molecule	R6861
	Hydrogen molecule	R6986
	Hydrogen peroxide molecule	R6844
	Hydrogen sulfide molecule	R6845
	Hydroxylamine molecule	R6850
	Hypochlorous acid molecule	R6862
	Iodine molecule	R6985
	Iodine monobromide molecule	R6856
	Iodine monochloride molecule	R6857
	Methane molecule	R6967
	Methanol molecule	R6979
	n-Butane molecule	R6965
	Nitrogen molecule	R6987
	Nitrogen trichloride molecule	R6947
	Nitrogen trifluoride molecule	R6948
	Noble gas molecule	R7526
	Oxygen difluoride molecule	R7524
	Oxygen molecule	R6988
	Phosphine molecule	R6852
	Phosphorus tribromide molecule	R6950
	Phosphorus trichloride molecule	R6951
	Phosphorus trifluoride molecule	R6952
	Phosphorus triiodide molecule	R6953
	Propanal molecule	R6976
	Propane molecule	R6964
	Propanoic acid molecule	R6974
	Propene molecule	R6963
	Silane molecule	R6954
	Silicon tetrabromide molecule	R6956







	Silicon tetrachloride molecule	R6957
	Silicon tetraiodide molecule	R6959
	Sulfur dichloride molecule	R7525
	Sulfur molecule	R6990
	Trisulfane molecule	R6847
	Water molecule	R6843
	White phosphorus molecule	R6989
	Getty Images	
	A silicon ingot	R8444
	A silicon wafer	R8472
	Carbon nanotubes supporting a lady beetle	R8357
	Fluorescent nanophosphoric dyes	R8309
	Fragrance microcapsules	R8356
	Nanorobot in human bloodstream	R8466
	Production of silicon wafers	R8473
	State Library of Queensland	
	Filling the car with rationed petrol, Woolloongabba, 1949	R8622










Energy and change




Learning objects

Years	Learning object	TLF ID
	Let's make it go series (Years P–1)	
P–1	Let's make it go: at the park	L847
P–1	Let's make it go: backyard	L953
P–1	Let's make it go: in the kitchen	L954
P–1	 Let's make it go	L955
	Mixing colours series (Years P–2)	
P–2	Mixing colours: match	L1117
P–2	Mixing colours: paint	L1116
P–2	 Mixing colours	L686
	Pushing and pulling series (Years P–3)	
P–2	Pushing and pulling: how much force?	L1121
P–1	Pushing and pulling: push or pull?	L1120
P–3	Pushing and pulling: zoo move	L1122
P–2	Pushing and pulling: assessment	L7879
P–3	 Pushing and pulling	L700
	Make it go: assessment series (Years P–6)	
P–2	Make it go: energy source: assessment	L9842
3–6	Make it go: energy change: assessment	L9843
	Energy from the Sun series (Years 3–5)	
3–5	Energy from the sun: design a solar cooker	L1140
3–5	Energy from the sun: design a solar oven	L1141
3–5	Energy from the sun: design a solar cooker and start cooking	L848
3–5	Energy from the sun: design a solar oven and start cooking	L1142
3–5	 Energy from the sun	L956
	Sound series (Years 3–6)	
3–6	Sound: strings	L2538
3–6	Sound: bongo bonanza	L2539
3–6	Sound: pipes	L2540
3–6	 Sound	L2536
	Sound: thunderstorms (Years 3–6)	
3–6	Sound: thunderstorms	L2537
	Steady ships series (Years 3–6)	
3–6	Steady ships: load similar weights	L1495
3–6	Steady ships load different weights	L1496
3–6	Steady ships: add similar weights	L1498
3–6	Steady ships: add different weights	L1499
3–6	 Steady ships	L1494
	Electromagnetism series (Years 3–8)	
3–6	Electromagnetism: electromagnet basics	L10714
5–8	Electromagnetism: magnetic fields	L10715
3–6	Electromagnetism: variables	L10716
	Jet force series (Years 4–6)	
4–6	Jet force: championship	L1115
4–6	Jet force: match	L1114
4–6	Jet force: training	L1113
4–6	 Jet force	L685
	Energy-efficient house series (Years 4–6)	
4–6	Energy-efficient house: information	L1148
4–6	Energy-efficient house: explore design	L1149

4–6	Energy-efficient house: build for performance	L1150
4–6	Energy-efficient house: build for value	L1151
4–6	 Energy-efficient house	L895
	Energy chains series (Years 4–6)	
4–6	Energy chains: build an energy chain	L2353
4–6	Energy chains: make electricity	L2354
4–6	Energy chains: side effects	L2355
5–8	Energy chains: power up!	L2356
7–8	Energy chains: energy use	L2357
	Matter and evaporation series (Years 5–6)	
5–6	Matter and evaporation: below zero	L1491
5–6	Matter and evaporation: solid to liquid	L1492
5–6	Matter and evaporation: liquid to gas	L1493
5–6	 Matter and evaporation	L1490
	Matter: assessment series*(Years 5–9)	
5–7	Matter: evaporation: assessment	L9956
8–9	Matter: change of state: assessment	L9957
	Making music series (Years 5–6)	
5–6	Making music: free play	L1193
5–6	Making music: match that sound	L1194
5–6	Making music: match that tune	L1195
5–6	Making music: make a tune	L1196
5–6	 Making music	L1192
	Optics and images series (Years 5–6)	
5–6	Optics and images: plane mirrors	L1487
5–6	Optics and images: curved mirrors	L1488
5–6	Optics and images: lenses	L1489
5–6	 Optics and images	L1483
	Optics and images series (ESL) (Years 5–6)	
5–6	Optics and images: curved mirrors (ESL)	L10194
5–6	Optics and images: lenses (ESL)	L10195
5–6	Optics and images: plane mirrors (ESL)	L10193
	Light and reflection series (Years 5–6)	
5–6	Light and reflection: light rays: seeing through walls	L4604
5–6	Light and reflection: light rays: shadow animals	L4605
5–6	 Light and reflection: light rays	L2041
5–6	Light and reflection: using mirrors: the forest	L4153
5–6	Light and reflection: using mirrors: the pyramid	L4155
5–6	 Light and reflection: using mirrors	L2042
5–6	Light and reflection: reflecting off surfaces	L2043
5–6	Light and reflection: under the spotlight	L2044
	Pulleys series (Years 5–8)	
5–8	Pulleys: change the force	L1199
5–8	Pulleys: add more pulleys	L1200
5–8	Pulleys: lifting challenge	L1201
5–8	 Pulleys	L1198
	Additive colour series (Years 5–8)	
5–8	Additive colour: the colour of light	L2542
5–8	Additive colour: combining coloured light	L2543
5–8	 Additive colour	L2541
	Subtractive colour series (Years 5–8)	
5–8	Subtractive colour: objects	L2780

5–8	Subtractive colour: spectrum	L2544
5–8	 Subtractive colour	L2545
	Air pressure series* (Years 5–9)	
5–8	Air pressure: particle model	L10380
6–9	Air pressure: effects on objects	L10383
	Sport shoes series (Years 6–7)	
6–7	Sports shoes: sole support	L491
6–7	Sports shoes: sole support [no spoken instructions]	L780
6–7	Sports shoes: shoe4u	L492
6–7	Sports shoes: shoe4u [no spoken instructions]	L781
	Wild ride series (Years 6–7)	
6–7	Wild ride: get a grip	L477
6–7	Wild ride: get a grip [no spoken instructions]	L478
7–9	Wild ride: get a grip: assessment	L477
6–7	Wild ride: on a roll	L479
6–7	Wild ride: on a roll [no spoken instructions]	L480
6–7	Wild ride: in top gear	L481
6–7	Wild ride: in top gear [no spoken instructions]	L482
6–7	Wild ride: race day	L483
6–7	Wild ride: race day [no spoken instructions]	L484
6–7	Wild ride: race day: assessment	L7968
	Light and colour: assessment series (Years 7–8)	
7–8	Additive colour: assessment	L10324
7–8	Subtractive colour: assessment	L10325
	Interpreting changes of state series (Years 7–8)	
7–8	Interpreting changes of state	L9122
7–8	Interpreting changes of state: heating	L9128
7–8	Interpreting changes of state: cooling	L9129
	Accelerate series (Years 7–10)	
7–10	Accelerate: force	L1189
7–10	Accelerate: mass	L1190
7–10	Accelerate: friction	L1191
7–10	 Accelerate	L1188
	Optics and prisms series (Years 8–10)	
8–10	Optics and prisms: split light	L1480
8–10	Optics and prisms: materials	L1481
8–10	Optics and prisms: coloured light	L1482
8–10	 Optics and prisms	L1479
	Glide series (Years 9–10)	
9–10	Glide: meet the instructor	L392
9–10	Glide: meet the instructor [no spoken instructions]	L659
9–10	Glide: customise your hang-glider	L394
9–10	Glide: customise your hang-glider [no spoken instructions]	L660
9–10	Glide: take a flight	L395
9–10	Glide: take a flight [no spoken instructions]	L661
9–10	 Glide: an interactive guide to hang-gliding	L396
9–10	 Glide: an interactive guide to hang-gliding [no spoken instructions]	L658
	Isotopes and radiation series (Years 9–10)	
9–10	Where there's smoke	L44
9–10	Check your ions	L46
9–10	The alpha, beta, gamma of radiation	L45
9–10	 Isotopes and radiation	L75

































	Nuclear power series (Years 9–10)	
9–10	Fission control	L47
9–10	Reacting to emergencies	L48
9–10	 Nuclear power	L76
	Wind power series (Years 9–10)	
9–10	It's not just wind	L49
9–10	Check your wind	L50
9–10	 Wind power	L77
	Speed and direction series (Years 9–10)	
9–10	Where does speeding get you?	L53
9–10	Sea rescue	L54
9–10	River currents	L55
9–10	 Speed and direction	L79
	Speed and distance series (Years 9–10)	
9–10	It's a drag	L51
9–10	Give me a brake	L52
9–10	 Speed and distance	L78
	Vision and lenses series (Years 9–10)	
9–10	Far out lenses	L56
9–10	Reading between the lines	L57
9–10	 Vision and lenses	L80
	Seeing with sound series (Years 9–10)	
9–10	Seeing with sound: sound lab tool	L1301
9–10	Seeing with sound: sound lab tour	L1302
9–10	Seeing with sound: sound lab quiz	L1303
9–10	Seeing with sound: echo lab	L1304
9–10	Seeing with sound: Doppler lab	L1305
9–10	 Seeing with sound	L1306
	Optics and refraction series (Years 9–10)	
9–10	Optics and refraction: media density	L1476
9–10	Optics and refraction: light angle	L1477
9–10	Optics and refraction: focal point	L1478
9–10	 Optics and refraction	L1475
	Optics and refraction series (ESL) (Years 9–10)	
9–10	Optics and refraction: media density (ESL)	L10384
9–10	Optics and refraction: focal point (ESL)	L10386
9–10	Optics and refraction: light angle (ESL)	L10385
	Exploring atoms series (Years 9–10)	
9–10	Exploring atoms: assisted atom builder	L2563
9–10	Exploring atoms: atom builder	L2564
9–10	Exploring atoms: ion builder	L2565
9–10	Exploring atoms: atom bingo	L2566
9–10	Exploring atoms: atom and ion bingo	L3124
9–10	 Exploring atoms	L3125
	Resistors series (Years 9–10)	
9–10	Resistors: Ohm's Law	L3824
9–10	Resistors: series and parallel	L3825
9–10	Resistors: voltage divider	L3826
9–10	Resistors: light dimmer	L3827
9–10	 Resistors	L3823
	Logic gates series (Years 9–10)	
9–10	Logic gates: introduction	L3829










































9–10	Logic gates: simple circuits	L3830
9–10	Logic gates: complex circuits	L3837
9–10	 Logic gates	L3828
	Capacitors (Years 9–10)	
9–10	Capacitors	L5928
	Wave Maker series (Years 9–10)	
9–10	Wave maker: making waves	L3820
9–10	Wave Maker: breaking waves	L3822
9–10	Wave Maker: wave power	L3821
	Radioactive decay series (Years 10–12)	
10–12	 Radioactive decay	L8031
10–12	Radioactive decay: half life	L8032
10–12	Radioactive decay: radiocarbon dating	L8033
	Galvanic cells series	
11–12	Galvanic cells: electrochemical series	L8885
11–12	Galvanic cells: cell reactions	L8884
	Electrolytic cells series	
11–12	Electrolytic cells: aluminium extraction	L8886
11–12	Electrolytic cells: molten salts	L8887
	Content from other sources	
	How is the melting of ice affected by heat? (Years 3–4)	
3–4	How is the melting of ice affected by heat?	L7576
	Does sound require a medium to carry its vibrations?(Years 3–4)	
3–4	Does sound require a medium to carry its vibrations?	L7567
	Flexibility of different shoes (Years 5–6)	
5–6	Flexibility of different shoes	L7564
	Light series (Years 3–8)	
3–4	Amount of light passing through a material	L7575
5–8	Lighting: assemble the spotlight	L3062
5–8	Lighting: light travels in straight lines	L3061
5–6	Colours of objects	L7562
	Electrical circuits series (Years 5–8)	
5–8	Wiring: the parallel circuit	L3060
5–8	Wiring: the series circuit	L3059
5–8	Wiring: the simple circuit	L3058
5–6	Conductors and insulators in circuits	L7578
7–8	Electrical conductivity	L7560
7–8	How a rheostat works	L7563
	Electrifying concert series (Years 5–8)	
5–8	Electrifying concert: lighting	L3056
5–8	Electrifying concert: wiring	L3057
5–8	 Electrifying concert	L3055
	Electromagnets (Years 7–8)	
7–8	How does the number of batteries affect the strength of an electromagnet?	L7566
7–8	How does the number of turns of the wire affect the strength of an electromagnet?	L7565
	The Bunsen flame	
7–8	The Bunsen flame	L7558
	Measuring time using a pendulum (Years 7–8)	
7–8	Measuring time using a pendulum	L7559
	EagleCat (Years 7–10)	
7–10	EagleCat: gears	L10085
7–10	EagleCat: reflect	L10079

Physical science series (Years 11–12)

11–12	Physical science: Electron configuration	L8995
11–12	Physical science: Photoelectric effect	L8993
11–12	Physical science: Density laboratory	L8862
11–12	Physical science: Nuclear decay	L8992
11–12	Physical science: Roller coaster physics	L8985
11–12	Physical science: Orbital motion: Kepler's Laws	L9005
11–12	Physical science: Fan cart physics	L8984
11–12	Physical science: Freefall laboratory	L8981
11–12	Physical science: Bohr model	L8994
11–12	Physical science: Hearing: frequency and volume	L8997
11–12	Physical science: Circuits	L8983
11–12	Physical science: Shoot the monkey	L9006
11–12	Physical science: Collision theory	L9001





Digital resources





Type	Resource	TLF ID
	australianscreen online	
	Activities of the Royal Aero Club of South Australia, c1935: A flight in a Tiger Moth	R8908
	Backs to the Blast, an Australian Nuclear Story, 1981: Power of the atom	R8891
	Backs to the Blast, an Australian Nuclear Story, 1981: Uranium supply a moral obligation	R8890
	Landline – Ethanol Special, 2006: 'Clean, green and healthier'	R8909
	Landline – Ethanol Special, 2006: Kicking the oil habit	R8907
	Metric Motoring, 1974: What you need to know	R7731
	Skyway Express, c1948: 'Take time by the forelock'	R7178
	Snowy Hydro – Conservation in the Snowy Mountains, 1955: Clearing methods invite bushfire	R7174
	Snowy Hydro – Operation Adaminaby, 1958: An old town dies, a new one born	R7172
	Snowy Hydro – Snowy 69, 1969: Clearing Talbingo dam site	R7171
	Snowy Hydro – Snowy 69, 1969: Opening the Murray 1 Power Station	R7170
	Snowy Hydro – Snowy 69, 1969: Overview of the Scheme	R7169
	Snowy Hydro – The Snowy Mountains Scheme, 1952: A river to be turned	R7163
	Spirit of Progress – Australia's Wonder Train, 1946: Carriage interiors and fittings	R7155
	Spirit of Progress – Australia's wonder train, 1946: Launching ceremony and inaugural trip	R7154
	CSIRO	
	Carbon dioxide geosequestration	R9753
	Harvesting energy from vibrations	R9756
	High-concentration solar tower array	R9661
	Plastic solar cells	R9755
	Saving energy with smart agents	R9754
	Solar car, 1998	R8957
	Department of Sustainability and Environment, Victoria	
	Black Balloons commercial 1	R10115
	Black Balloons commercial 2	R10116
	Black Balloons commercial 3	R10117
	Black Balloons commercial 4	R10118
	Getty Images	
	A microelectromechanical systems (MEMS) device	R8432
	An etched semiconductor wafer	R8443
	An innovative solar energy panel	R8311
	Internal wires of a solar panel	R8449
	Printed circuit assembly	R8447
	Random access memory (RAM) chip	R8450
	Twisted-pair, coaxial and fibre-optic cables	R8478

















































	MEMS accelerometer device	R8431
	MEMS-based laser scanner	R8433
	Micro-lenses on a silicon chip	R8445
	Near-field scanning optical microscope	R8352
	Museum Victoria	
	Penny-farthing bicycle, c1888	R6368
	National Film and Sound Archive	
	'Colour TV in the making', 1974 – part 1 of 3	R6598
	'Colour TV in the making', 1974 – part 2 of 3	R6599
	'Colour TV in the making', 1974 – part 3 of 3	R6600
	Houdini first to fly, 1910	R4394
	'Integrated circuits: South Australia', 1970 – asset 1	R5697
	'Integrated circuits: South Australia', 1970 – asset 2	R5698
	Jet propulsion for ships, 1948	R5055
	Wright brothers flying their 'Model A' plane, 1908	R4078
	National Library of Australia	
	Celebrating the railway link between Sydney and Melbourne, 1883	R9343
	National Museum of Australia	
	'Castles in the air' cartoon by Paul Newman, 2007	R10214
	Powerhouse Museum	
	Atomic absorption spectrometer	R5592
	Barouche carriage, c1840–80	R6326
	Black box flight recorder, c1961	R4423
	Bradbury motorcycle and sidecar, c1916	R6327
	Bugatti Type 37A racing car, 1928	R6328
	Buried contact solar cell, diagram, 1991	R4610
	Buried contact solar cell, photograph, 1991	R4611
	Cochlear implant, 1999 – asset 1	R4769
	Cochlear implant, 1999 – asset 2	R4770
	Dual-flush toilet, 1982	R4422
	Ford 'ute', 1934	R4380
	Gearbox for a six-cylinder Australian car, c1989	R4425
	General Electric television receiver, 1938	R6169
	Goggomobil Dart, 1959	R6330
	Hansom cab, c1900	R6331
	Holden FJ 225 Special, 1955	R6329
	John Logie Baird's televisor, c1930	R6170
	Orbital combustion process engine – asset 1	R4771
	Orbital combustion process engine – asset 2	R4772
	Owen submachine gun	R4428
	Smart card transit system, c1987	R4421
	Solahart water heater – asset 1	R5593
	Solahart water heater – asset 2	R5594
	Specimen piece of Charles Babbage's 'Difference Engine No 1', 1822–33	R6452
	Steam locomotive No 1, 1854	R6332
	Victa rotary lawnmower, c1953	R4426



































Working scientifically

Learning objects

Years	Learning object	TLF ID
	Kitchen stacker series (Years 1–3)	
3–6	Kitchen stacker: create your own	L2351
1–2	Kitchen stacker: label the cupboards	L2350
3–6	Kitchen stacker: sort and label	L2349
1–2	Kitchen stacker: sort the groceries 1	L2347
1–2	Kitchen stacker: sort the groceries 2	L2348
1–2	 Kitchen stacker 1	L2345
3–6	 Kitchen stacker 2	L2346
	Colossal fossils series (Years 5–6)	
7–9	Colossal fossils: jaw analysis: fossil 1	L6949
7–9	Colossal fossils: jaw analysis: fossil 2	L6900
7–9	Colossal fossils: jaw analysis: fossil 3	L6901
7–9	Colossal fossils: jaw analysis: fossil 4	L6902
7–9	Colossal fossils: jaw analysis: fossil 5	L6903
7–9	Colossal fossils: jaw analysis: fossil 6	L6904
7–9	Colossal fossils: the dig	L2011
7–9	 Colossal fossils: jaw analysis	L2013
	Fair test series (Years 5–8)	
5–8	Fair test: growing tomatoes	L1184
5–8	Fair test: growing peas	L1185
5–8	Fair test: growing lettuce	L1186
7–8	Fair test: use a fair test: assessment	L9260
7–8	Fair test: design a fair test: assessment	L8487
5–8	 Fair test	L540
	Meet a scientist series (Years 5–9)	
5–8	Meet a scientist: geologist and environmental scientist	L499
5–8	Meet a scientist: geologist and environmental scientist [no spoken instructions]	L500
5–8	Meet a scientist: geologist	L501
5–8	Meet a scientist: geologist [no spoken instructions]	L502
5–8	Meet a scientist: environmental scientist	L503
5–8	Meet a scientist: environmental scientist [no spoken instructions]	L504
5–8	Meet a scientist: virologist	L505
5–8	Meet a scientist: virologist [no spoken instructions]	L506
5–8	Meet a scientist: electronics engineer	L507
5–8	Meet a scientist: electronics engineer [no spoken instructions]	L508
5–8	Meet a scientist: venom researcher	L509
5–8	Meet a scientist: venom researcher [no spoken instructions]	L510
5–8	Meet a scientist: materials researcher	L511
5–8	Meet a scientist: materials researcher [no spoken instructions]	L512
5–8	Meet a scientist: materials researcher and venom researcher	L636
5–8	Meet a scientist: materials researcher and venom researcher [no spoken instructions]	L637
5–8	Meet a scientist: virologist and electronics engineer	L634
5–8	Meet a scientist: virologist and electronics engineer [no spoken instructions]	L635
7–9	Meet a scientist: nanotechnology: microbiologist	L2546
7–9	Meet a scientist: nanotechnology: program manager	L2547
7–9	Meet a scientist: nanotechnology: project manager	L2548

	Interpreting changes of state series (Years 7–8)	
7–8	Interpreting changes of state	L9122
7–8	Interpreting changes of state: heating	L9128
7–8	Interpreting changes of state: cooling	L9129
	Mystery disease series (Years 9–10)	
9–10	Mystery disease: outbreak in Glenbrook	L2016
9–10	Mystery disease: outbreak in Stratton	L2017
9–10	Mystery disease: outbreak in Waverly	L2018
9–10	Mystery disease: outbreak in McArthur Vale	L2019
9–10	Mystery disease: outbreak in Nelson	L5316
	Science reporter series (Years 7–10)	
7–10	Science reporter: geologist and environmental scientist	L513
7–10	Science reporter: geologist and environmental scientist [no spoken instructions]	L514
7–10	Science reporter: geologist	L515
7–10	Science reporter: geologist [no spoken instructions]	L516
7–10	Science reporter: environmental scientist	L517
7–10	Science reporter: environmental scientist [no spoken instructions]	L518
7–10	Science reporter: virologist	L519
7–10	Science reporter: virologist [no spoken instructions]	L520
7–10	Science reporter: electronics engineer	L521
7–10	Science reporter: electronics engineer [no spoken instructions]	L522
7–10	Science reporter: venom researcher	L523
7–10	Science reporter: venom researcher [no spoken instructions]	L524
7–10	Science reporter: materials researcher	L525
7–10	Science reporter: materials researcher [no spoken instructions]	L526
7–10	Science reporter: venom researcher and materials researcher	L640
7–10	Science reporter: venom researcher and materials researcher [no spoken instructions]	L641
7–10	Science reporter: virologist and electronics engineer	L638
7–10	Science reporter: virologist and electronics engineer [no spoken instructions]	L639
7–10	Science reporter: nanotechnologist	L2549
	Exploring atoms: atom structure (Years 9–10)	
9–10	Exploring atoms: atom structure	L2562
	Content from other sources	
	EagleCat (Years 8–10)	
8–10	EagleCat: plants	L10082
	Forensic science series (Years 9–12)	
9–12	Forensic science: DNA	L1462
9–12	Forensic science: blood	L1463
9–12	Forensic science: fibres and hairs	L1464
9–12	Forensic science: fingerprints	L1465
9–12	Forensic science: footprints	L1466
9–12	Forensic science: handwriting	L1467
9–12	Forensic science: identikit	L1468
9–12	Forensic science: building a profile	L1469
	Digital resources	
Type	Resource	TLF ID
	Australian Voices	
	Andy Thomas describes being a cosmonaut, 2008	R9903
	Andy Thomas describes his first flight into space, 2008	R9901
	Andy Thomas discusses recreation on Mir, 2008	R9902
	Andy Thomas speaks of Australia's space program, 2008	R9904

	Colin Gramp discusses wine industry changes, 2005	R8951
	Forbes Carlile discusses development of Australian sports science, 2008	R10262
	Forbes Carlile talks about sports science as a career, 2008	R10263
	Gus Nossal describes his most noted medical research, 2008	R9534
	Gus Nossal speaks on being a research scientist, 2008	R10109
	Ian Frazer discusses the cervical cancer vaccine, 2008	R8858
	Ian Frazer describes medical research work, 2008	R9381
	Jurij Semkiw remembers Australia's first computer, 2006	R8840
	Robyn Williams talks about inspiring young scientists, 2008	R10264
	Robyn Williams talks on communicating science to the public, 2008	R10265
	australianscreen online	
	Super Flu – Race Against a Killer, 2005: Avian flu in Hong Kong	R7141
	Spirit of Progress – Australia's Wonder Train, 1946: Carriage interiors and fittings	R7155
	Spirit of Progress – Australia's wonder train, 1946: Launching ceremony and inaugural trip	R7154
	The Human Journey, 1999: Inspired detective work	R9315
	The New Inventors – Series 1 Episode 8, 2004: Modern alchemy	R10211
	The 7.30 Report – Pneumococcal Vaccine, 2003: Measuring the cost	R8803
	These American Tourists Leave Melbourne After Breakfast, c1926: Aircraft workshop	R10242
	CSIRO	
	Arresting cancer, 2001	R10119
	Beat sheet sampling – asset 1	R4523
	Beat sheet sampling – asset 2	R4526
	Collecting insects at night – asset 1	R4533
	Collecting rats	R8650
	Collecting insects at night – asset 2	R4534
	Collecting insects using a window trap	R4540
	Designing a drug to target the flu virus	R8660
	Direct collecting of insect specimens – asset 1	R4524
	Direct collecting insect specimens – asset 2	R4532
	Direct collecting insect specimens – asset 3	R4537
	Early monitoring of ozone depletion and global warming, 2004	R9855
	Enhanced electron micrographs, 1998	R8959
	Filtering exhaust gases, 1999	R8960
	Investigating asthma, 2000	R8664
	Monitoring air quality at Cape Grim	R8941
	Techniques for studying the sea floor	R8947
	Vibrations on piano strings, 2001	R8958
	Insect pinned in the field	R4536
	Malaise trap in the field – asset 1	R4530
	Malaise trap in the field – asset 2	R4538
	Malaise trap in the field – asset 3	R4539
	Malaise trap near a waterhole	R4529
	Measuring pH	R8942
	Preserving an insect specimen in the field	R4531
	Purifying with plastics	R9846
	Scientists consulting field notes	R4535
	Sharper X-ray images	R8663
	Solar-powered light trap	R4525
	Tracking bats	R8653
	Vacuum insect-collecting device – asset 1	R4527
	Vacuum insect-collecting device – asset 2	R4528

	Getty Images	
	Australian astronaut Andrew Thomas, 2005	R10124
	DNA sequencing gels for genetic and medical research, close-up	R8769
	Field technician spraying strawberry plants, 1987	R8428
	Hematopoietic stem cells isolated from human bone marrow	R8767
	Oscilloscope	R8448
	Richard P Feynman (physicist)	R8434
	Testing milk on a dairy farm	R2199
	National Archives of Australia	
	Cloud seeding near Sydney, 1957	R3393
	Measuring the ozone in 1978	R2788
	Rabbit fumigator, Orange, 1966	R3395
	Scientific research in Antarctica in 1966	R2775
	National Film and Sound Archive	
	'Fight to combat TB', 1945 – asset 1	R4447
	'Fight to combat TB', 1945 – asset 2	R4448
	First production of Salk vaccine in Australia, 1956 – asset 1	R5050
	First production of Salk vaccine in Australia, 1956 – asset 2	R5051
	First production of Salk vaccine in Australia, 1956 – asset 3	R5052
	First production of Salk vaccine in Australia, 1956 – asset 4	R5053
	Making a glass eye, 1937 – asset 1	R4630
	Making a glass eye, 1937 – asset 2	R4632
	Making a glass eye, 1937 – asset 3	R4634
	New tuberculosis drug, 1955 – asset 1	R5251
	New tuberculosis drug, 1955 – asset 2	R5252
	New tuberculosis drug, 1955 – asset 3	R5253
	'The Mawson Australasian Antarctic Expedition 1911–1913' – asset 1	R4121
	'The Mawson Australasian Antarctic Expedition 1911–1913' – asset 2	R4122
	'The Mawson Australasian Antarctic Expedition 1911–1913' – asset 3	R4123
	'The Mawson Australasian Antarctic Expedition 1911–1913' – asset 4	R4124
	'The Mawson Australasian Antarctic Expedition 1911–1913' – asset 5	R4125
	National Library of Australia	
	Cactoblastus being released, c1926	R3949
	Powerhouse Museum	
	Both respirators	R4381
	Chemists researching properties of tea-tree oil	R6134
	National Trachoma and Eye Health Program, 1976	R4612
	National Trachoma and Eye Health Program, 1977	R4613
	Penicillin production, c1940s	R4377