

ANSWER GUIDE



Term 2, 2022

Gold rush WA

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Activity title	Answers
Dig into gold!	ochre, tools (ie: grinding stones, baskets), weapons (ie: stone spears, boomerangs), animal skins, shells, wood, stone, food, knowledge
Ancient wonder	<p>Explore Ancient wonder Match the event to the correct date.</p> <p>1788 Gold is discovered in the Kimberley region of WA.</p> <p>1847 Australia's first gold rush begins in New South Wales.</p> <p>1851 WA's gold rush brings 100,000 people to the State.</p> <p>1885 Australia's first gold sighting is in Tasmania.</p> <p>1894 First European settlers arrive in Botany Bay, NSW.</p>
Heading west – discover	Paddy Hannan

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Activity title	Answers
Map it	<p>Explore Map it Number the location of these historically significant places in the correct space on the map.</p> <p>Ports:</p> <p>1 Fremantle</p> <p>2 Esperance</p> <p>3 Albany</p> <p>Gold discoveries:</p> <p>4 Halls Creek</p> <p>5 Southern Cross</p> <p>6 Coolgardie</p> <p>7 Kalgoorlie</p>
On the track	Students' own response
Camels and cargo	<ul style="list-style-type: none"> • Can survive without water for days. • Able to eat a variety of native shrubs and vegetation. • Able to carry very heavy loads. • Camels can walk long distances. • Camels roam freely as they are not territorial. • Live up to 50 years.

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Activity title	Answers
DIY shaker	Students' own response
Caption this	Students' own response

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Activity title	Answers
Digging deeper	Rocks and soil disturbed, water overused/soiled, trees cut for timber, land trampled by hooved animals, habitats disturbed

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Activity title	Answers
Camp towns	<div> <div> humpies shanty town abundant </div> <div> <div>A</div> <div>B</div> <div>C</div> </div> <div> a collection of shelters made from available materials plentiful small, temporary shelters </div> </div>
Original inhabitants	trees, branches, bark, grass, stones
Rough living	Students' own response
Coolgardie cooler	Students' own response

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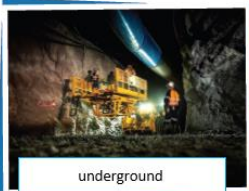

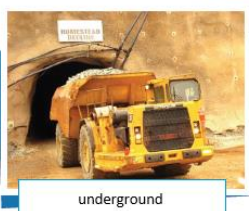
Activity title	Answers
Women and children	Students' own response
A multicultural place	Students' own response
Daily dangers	Possible answers include: compulsory safety gear (such as hard hats, high-vis, safety glasses, masks, etc.) remote operations, advanced technology (for monitoring, communication, etc.), gas detectors, safety officers and medical personnel on site, pre-employment health checks, emergency equipment (such as fire extinguishers, first aid, etc.), ventilation and water pumps, training, banning dangerous chemicals

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Activity title	Answers
A rich region	2.7 million
Laying tracks	The Prospector, 6 hours, 19 stops, yes
Water in the desert	steam

Activity title	Answers
Federation features	<input checked="" type="checkbox"/> red brick <input type="checkbox"/> many storeys high <input checked="" type="checkbox"/> decorative trims <input checked="" type="checkbox"/> archways <input type="checkbox"/> very small doorways <input checked="" type="checkbox"/> iron rooves <input checked="" type="checkbox"/> balconies <input type="checkbox"/> no windows
Minting money	Sydney, Melbourne
Historic holiday	Students' own response

Activity title	Answers
Drilling in	Water: cooling, lubricating Diamonds: cutting
All things considered	<input checked="" type="checkbox"/> close to an existing road network <input checked="" type="checkbox"/> close to a large water supply <input checked="" type="checkbox"/> high concentration of gold <input type="checkbox"/> place of significance for Aboriginal people <input type="checkbox"/> habitat for an endangered species <input checked="" type="checkbox"/> another mine is nearby

Activity title	Answers
Mine time	 open pit  underground  open pit  underground
Having a blast	<ol style="list-style-type: none"> 3 Explosives are placed into the holes by a charge crew. 5 When the dust has settled, the area is inspected for safety and removing the ore can begin. 4 Everyone moves to a 'safe zone' and the explosives are fired. 2 Holes are drilled into the rocks by a drilling crew, using a drill rig (large drill). 1 A detailed 'blast plan' is prepared, which includes information like what explosives will be used, who will be involved, and any potential hazards.

Activity title	Answers
Getting gold from stone	<ol style="list-style-type: none"> 1. Put the ore through the primary crusher. This breaks the ore into fist-sized chunks. 2. Mill the crushed ore into a fine powder. The mill contains steel balls or rods that spin around and help to grind the rock. 3. Mix the milled ore with water and sodium cyanide. This dissolves the gold and forms a concentrated gold solution or 'slurry'. 4. Add special carbon pellets to the slurry. The pellets attract and collect dissolved gold. 5. Collect the gold-covered pellets. Remove the gold sticking to the pellets by washing in a solution of hot cyanide. 6. Pass an electric current through the new solution. The current causes the solution to collect itself around a piece of steel wool. 7. Remove the gold from the steel wool and send to a hot furnace. Melting the gold mixture makes the lighter ore components float to the top for removal. 8. Pour the gold into moulds and cool. The doré bars (semi-pure gold bars) are sent to the Perth Mint for final refining.

Activity title	Answers
Big wheels	haul packs, graders, front end loaders, water trucks
The daily grind	Possible answers include: workers must wear earplugs, must wear safety boots, must complete safety training, must wear a hard hat, don't climb on equipment, etc.

Activity title	Answers
Jobs that rock	Possible answers include: connection to friends and family (phone, internet), connection to culture/religion, access to mental health professionals, healthy food and lifestyle options, leisure activities, comfortable beds to promote good sleep, etc.
A variety of vocations	Down: 1. engineer, 2. geologist, 3. surveyor, 4. shot firer, 7. electrician, 8. safety Across: 5. driller, 6. environmental, 9. operator, 10. chef
Tomorrow's technology	Students' own response

Activity title	Answers
On the job	Students' own response
Camp life	
Home away from home	all

Activity title	Answers
Exciting innovations	
The drive for diversity	all

Activity title	Answers
Community focus	

Activity title	Answers
Precious properties	

Activity title	Answers
Get to know gold	<ul style="list-style-type: none"> • Gold is the only yellow metal. (true) • The most common unit of measurement for gold is the <i>troy ounce</i> (31.1g). (true) • Lead is heavier than gold. (false) • The chemical symbol for gold is <i>Au</i>. (true) • The term <i>carat</i> describes the purity of gold. (true) • Pure gold is known as 48 carat. (false: pure gold is 24 carat) • Pure gold is rarely used to make jewellery as it is too soft. (true) • More than half of the world's gold is stored by governments and banks. (true) • Pyrite, commonly called 'fool's gold', is a low quality form of gold. (false: it is an iron sulphide) • During the ancient Greek Olympics, gold medals were awarded for 3rd place. (false: no medals were awarded) • In medieval times, alchemists believed it was possible to transform less valuable metals into gold. (true) • King Tutankhamun's famous death mask (pictured) contains no real gold, only gold paint. (false: the mask is covered in thin layers of gold alloy)
As good as gold	

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Activity title	Answers
Green gold	Measured in nanometres: 1 nanometre = 1 billionth of a metre
iGold	False: Rechargeable batteries are powered by gold

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Activity title	Answers																																			
Out of this world	Infrared light																																			
The ultimate gold rush	Students’ own response																																			
Why gold?	<table><tr><th></th><th>space exploration</th><th>portable electronics</th><th>data storage</th><th>solar energy</th></tr><tr><td>durable</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>malleable</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>ductile</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>conductive</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>reflective</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>recyclable</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></table>		space exploration	portable electronics	data storage	solar energy	durable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	malleable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ductile	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	conductive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	reflective	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	recyclable	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Activity title	Answers
Decadent dishes	Students' own response
Getting around in style	Students' own response

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Activity title	Answers
Golden glory	Film and television: Oscar statuette, Golden Globe, Palme d'Or, Gold Logie Music: Grammy, Golden Guitar Sport: Melbourne Cup Academic: Nobel Prize
Pretty rings and things	<pre> graph LR WG[white gold] --- A1[an alloy of pure gold and copper] RG[rose gold] --- A2[an alloy of pure gold and silver or palladium] BG[black gold] --- A3[an alloy of pure gold and cobalt oxide] </pre>
Bling bling	Students' own response

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Activity title	Answers
The gold market	commodity: gold, unit: troy ounce, price: will vary, currency: Australian dollar
Coins and collectables	Students' own response