TOTAL media education

ANSWER GUIDE



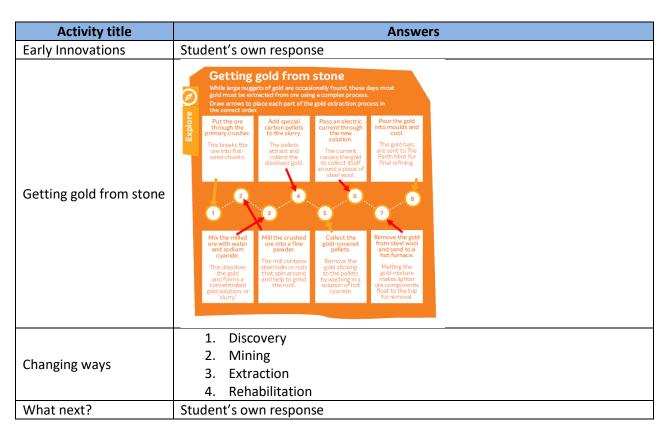
Term 2, 2021

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Part 1: The future is golden

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Activity title	Answers													
Gold Standard												ı		
	Υ	М	R	L	Е	Е	R	Е	S	E	В			
	В	Е	A	U	Т		F	U	D	V	Α			
	Α	R	R	L	Т	R	D	D	D	1	0			
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	V	D	Е	N	S	10	0	R	С	С	Υ			
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	0	Τ	D	0	L	U	W	В	1	L	Α			
	Н	N	Н	0	w	Р	Ε	L	-	F	D			
	Т	Υ	W	L	Е	1	D	Е	E	E	K			
	Ε	С	0	N	D	U	С	Т	0	R	Т			
	R	Е	С	Υ	С	L	Α	В	L	E	0			



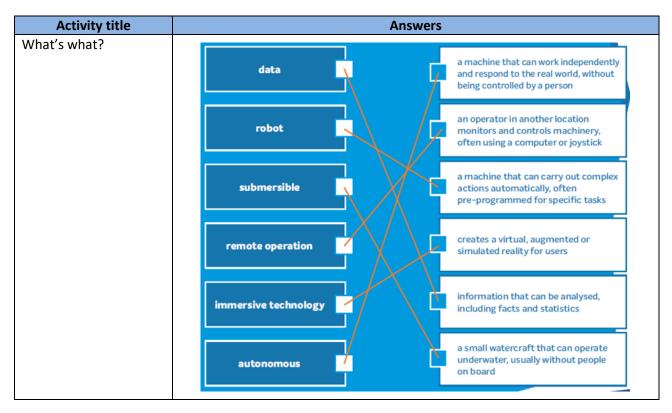
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Activity title	Answers												
Out of this world	Infrared light												
Tech bling	Electronic items with	Electronic items with gold: airbag, gaming console, tablet, drone											
Why gold?	Student's own respon	Student's own response											
		Why gold?											
		Tick which properties of go Most of the properties will			industries.								
			space exploration	electronics	medicine								
		durable	<u> </u>	<u> </u>	V								
		malleable	\checkmark	\checkmark									
		conductive	\checkmark	\checkmark	<u> </u>								
		reflective	\checkmark										
		recyclable		<u></u>									
	Suggested response:				·····								

Activity title	Answers
Clean energy	geothermal
	biomass
	hydroelectric
	tidal
Sustainable camps	Student's own response
Gold in numbers	 WA produces around 70% of Australia's gold.
	 WA's gold industry provided jobs for 31000 people in 2020.
	 WA's gold rush began in 1893.
	 The largest gold nugget found in WA weighed 35.5 kg.
	 Last year, the government received \$411 million in royalty payments
	from the gold industry.

Part 2: Smarter and safer

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Activity title	Answers
But how?	Tick the true statements about the environmental impacts of autonomous vehicles. ✓ Autonomous vehicles use less fuel because they drive steadily. ✓ Less employees traveling to and from site means lower carbon emissions. Autonomous vehicles run on renewable energy.
World class training	Student's own response, possible responses include:

Remote resources	Remote operations can benefit a resources project in a variety of ways. Place ticks to show if you thir each idea is a safety, efficiency, environmental or lifestyle benefit. Some ideas may have benefits in more than one category.	safety	efficiency	environmental	lifestyle	
	people do not have to go to dangerous locations like deep underground or underwater	✓	<u> </u>			
	less travel to and from sites means fewer emissions and less transport costs		√	✓		
	specialists can work on multiple projects in different locations		√			
	workers can be based in a city, instead of relocating or working FIFO				√	
	there can be greater flexibility in work arrangements, for example, part-time work		√		<u> </u>	
	teams from different areas can work together and share information more easily	√	<u> </u>			
	remote operation centres can better cater to people with diverse abilities, for example wheelchair users		<u> </u>		√	
Record breaking robot	Pilbara					

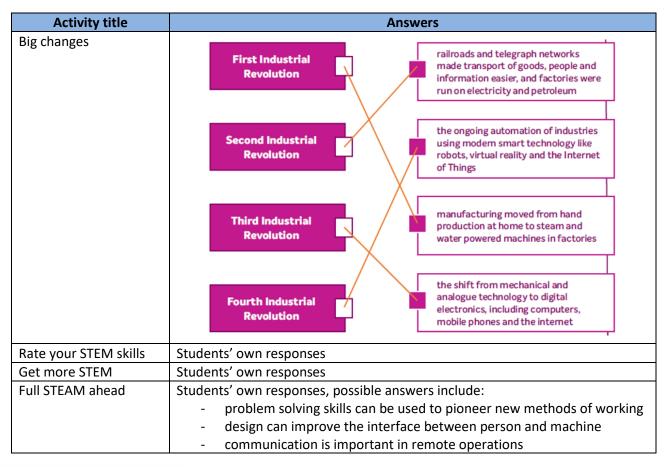
Activity title	Answers
Gizmos and gadgets	Students' own responses, possible responses include:
	RFID tag: monitors employee location, used to check areas before blasting or bringing in machinery, can locate employees in case of emergency
	All terrain robot: used to ensure an area is safe before people enter, can go in paces people don't safely fit
	Proximity detection device: forces an automatic stop so vehicles don't collide with each other or people, an extra safety measure if visibility is poor
	Wearable heath technology: monitors health of employees, can pick up
	changes to health, could be used to improve health by monitoring stress, workload, etc.
	Unmanned aerial vehicle: can be used to view hazards from an aerial view,
	including overheating, rock falls, etc., unmanned so reduces the need for small aircraft flights
	Wearable gas detector: alerts the wearer if the air quality is unsafe, because
	its wearable employees will not forget to take it with them as they move
	through the mine
My machine	Students' own response

Far, far away!	Students' own responses, possible responses include:
	Positives
	- some minerals which are rare on Earth are abundant in space
	- better for the environment on Earth
	- new opportunities for innovation
	- increased job opportunities
	- increased Space discovery/exploration
	- potential to discover
	Negatives
	- will be very expensive initially
	- dangerous
	- could have unknown consequences
	- ethical concerns

Part 3: On the job

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Activity title	Answers																		
A job that fits								е											
								х											
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		g	е	0	ı	О	g	i	s	t							С		
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										i							i		
						patio ne nu		r	р	а	r	а	m	е	d	i	С		
	of le	into the puzzle? Use the number of letters in each word to help you figure it out.								n									
	figu	re it o	out.																



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Activity title	Answers
On location	DIDO – Drive in, drive out BIBO – Bus in, bus out
The FIFO life for me	Students' own responses, possible responses include: Positives: you can choose where to live, home and work life are separate, can holiday/relax in break, good facilities on site, few expenses while working as food/accommodation are provided, good pay, etc. Negatives: long hours of work, time away from friends and family, can be uncomfortable environment (hot/humid/etc.), shift work can mess with sleep patterns, freedom can be restricted on site due to remote location, etc.
Do you have what it takes?	Students' own responses

Activity title	Answers													
Who, what, where?	M	С	М	Α	P	Н	Y	S		0	Υ	C	В	U
	E	S	W	В	1	R	Р	0	K	1	S	A	B	Р
	D	Н	J	Х	L	D	R	0	K	С	Н	R	1	D
	ı	1	R	Т	0	С	Т	Н	U	0	0	T	0	Е
	A	P	Α	R	T	F	В	М	1	С	L	0	L	S
	L	L	U	F	Α	S	G	G	Т	S	Α	G	0	E
	1	0	1	W	R	D	Œ	Α	W	Y	E	R	G	C
	A	A	0	Т	S	1	G	Р	1	N	1	A	1	U
	1	D	1	Н	1	V	Α	N	1	Р	Е	P	S	R
	S	Е	Р	Е	R	E	М	U	R	Т	В	Н	I	1
	0	R	0	Α	G	R	Т	S	С	1	S	E	K	Т
	N	R	P	R	0	G	R	Α	М	М	Ε	R	С	Y

Where in WA?	37.6% 5.2% 1.4% 1.4% 1.4% (Perth) 6.7 % (South West WA)
New opportunities	amalgamator: handled heated mercury in the process of extracting gold from ore, often without proper protective equipment skipman: oversaw the movement of people and ore in and out of a mineshaft, using bell or whistle signals to communicate crackerman: in charge of breaking up large rocks using either a sledgehammer or explosives timberman: cut timber and placed wooden support beams in underground mines
The drive for diversity	Students' own responses, possible responses include: - flexible work rosters - a culture of inclusion, no tolerance of exclusionary actions and language - appropriate facilities on site, such as ambulant toilets or accessible ramps - organise events and activities that celebrate employee differences - giving employees a say in matters that concern them - ensure employees, understand the benefits of a divers workplace