The media education

ANSWER GUIDE

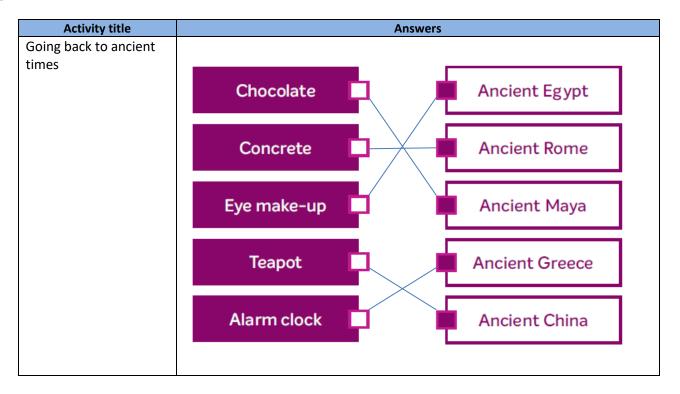


Term 4, 2020

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Part 1: At home

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Activity title	Answers			
Innovation upon	Students will have own responses.			
innovation				
Pioneer thinking	Students will have own responses.			
In the kitchen and pantry	The 'Coolgardie safe' was a forerunner to the domestic fridge.			
Al foil 1907 Canned food 1809	Number the following food storage inventions in chronological			
Tupperware 1946	order according to when they were invented.			
	3 Tupperware 4 Cling wrap			
	1 Canned food 2 Aluminium foil			
The best thing since sliced bread	Students will have own responses.			

Activity title	Answers
Ring ring (Innovate)	Students will have own responses.

Ring ring (Explore)	1672 B	Α	first two-way videophone is created, which allows people see, hear and reply to each other in real time – but with no commercial success
	1838 D	В	Robert Hooke finds that sound can be sent over a wire or string
	1876 C	С	Alexander Graham Bell finds a way to transmit speech electronically, inventing the first telephone
	1930 A	D	Samuel B. Morse discovers that messages can be communicated by pressing and releasing a button, transmitting a pattern of sounds
	1947 E	Ε	transistors are invented, which allow computers to be merged with electronics, marking the beginning of smartphone development
	1962	F	Martin Cooper makes the first ever mobile phone call – but the phone takes a year to recharge
	1973 F	G	iTunes Store and the Android market open up for smartphones, driving up popularity of phone apps
	1993 H	Н	first smart phones are released, which have a touch screen and can send and receive faxes
	2008 G	1	satellites start to be used for telecommunications

Tiny device, billions of possibilities

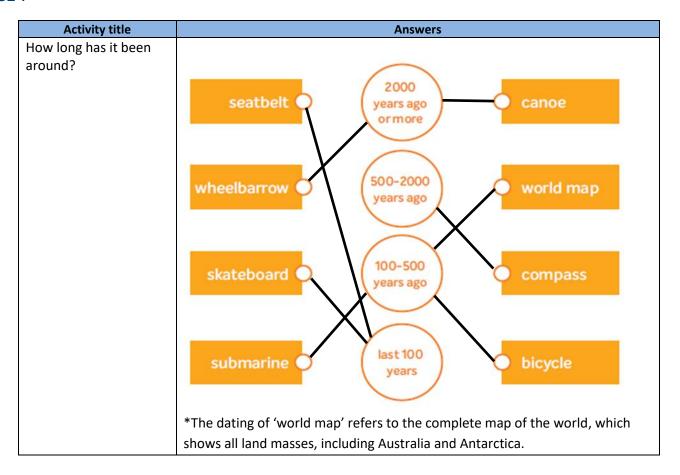


High five WiFi	Students wi	Students will have own respones. Examples:			
		Discovery 1	Discovery 2		
	Vacuum cleaner	How to create suction	How to fabricate a flexible hose		
	TV	Transistor	Recording equipment		

Home comforts	
	Surprisingly, pillows were not always soft! Which of the following statements are true?
	Ancient Chinese believed that hard pillows, made out of materials such as porcelain or jade, brought energy, health and intelligence.
	King Henry VIII of England banned the use of soft pillows with the exception of use by pregnant women.
	Ancient Egyptians placed wooden or stone pillows under the heads of the dead, and engraved them with images of the gods to keep bad spirits away.
	All of the above.
Making life easier	Students will have own responses.
Less work, more leisure	A demonstration of the 'Brown Box' led to the licensing of the technology and a release of the first official video game console. What was the brand of this first console?
	Atari ✓ Magnavox XBox
	Nintendo PlayStation

Part 2: Getting from A to B

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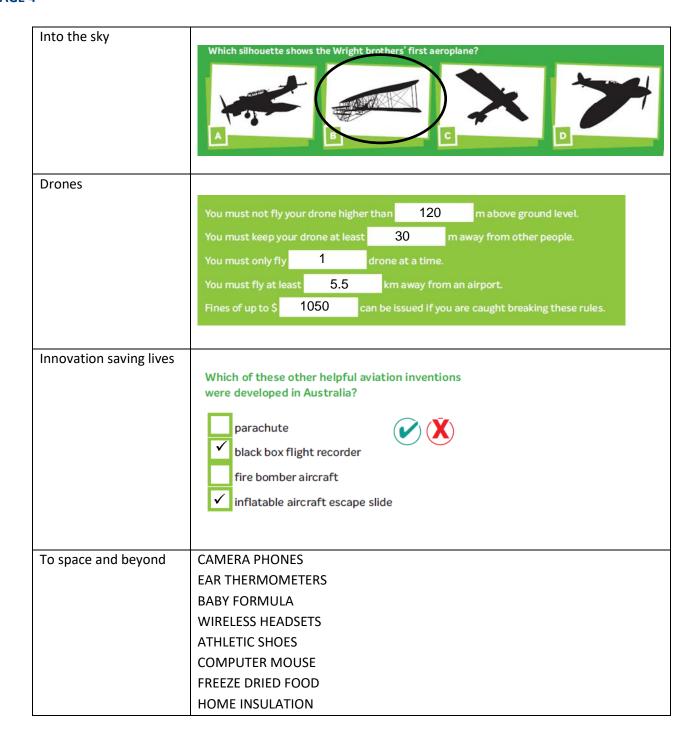


Activity title	Answers
Rolling and chuffing (Explore)	Where was the steam locomotive invented? I England Germany USA Russia After the invention of the steam locomotive, which innovation came next? diesel powered trains electric powered trains
Rolling and chuffing (Investigate)	431 km/h

New ideas for mass	Students will have own responses. Some examples include:					
transport		advantages	disadvantages			
	introducing light rail (a tramlike system built over or alongside existing roads)	useful for where level of demand is less than would warrant heavy rail	might limit space for existing road traffic			
	sinking existing train lines so they all run through underground tunnels	removes unsightly train lines	tunnel construction work might damage buildings in the surrounding area			
	introducing a monorail (a railway in which a single rail track is elevated above existing roads)	require very little groudn space	difficult to engineer switch tracks for different routes			
Crossing the seas						
o di	bilge pump C	detects storms and nearth				
	antifoul paint F	makes it possible to drop anchor without a lot of cr	ew			
	radar A	removes sea water and of liquids from the ship	ther leaking			
	windlass B	removes the need to store amounts of fresh water o				
	rudder E	makes it possible to steer without oars	watercraft			
	safety harness G	protects the hull of a ship from slime, barnacles and other creatures that grow on the ship				
	filtration system D	allows sailors to tether the are not thrown overboard	emselves so they I in storms			
Crossing the seas	actroloho	backstoff	compace			
	astrolabe ✓ sextant	back staff chronometer	compass telescope			

Activity title	Answers
G'day car	Students will have own responses.

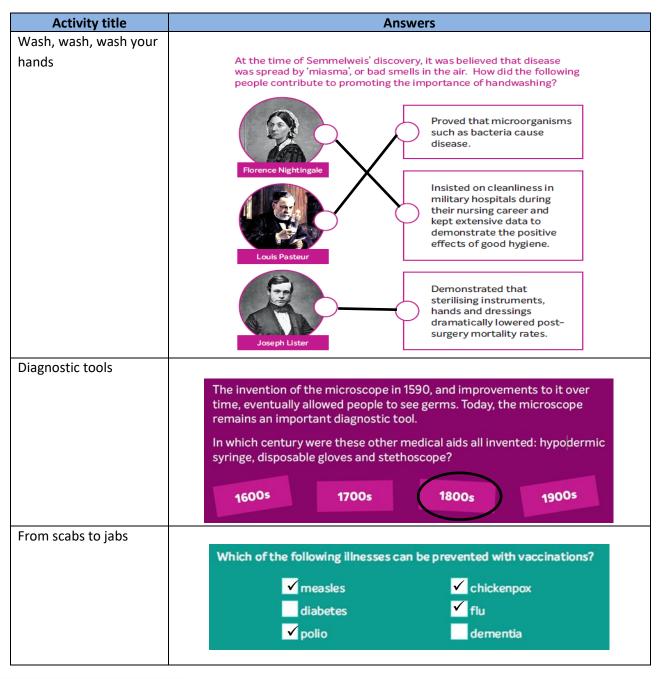
Improving and modifying	5		xI		
inounying		safety	convenience	performance	sustainability
	inflatable tyres (1888)		V	V	
	indicators (1908)				H
	electronic ignition starter (1911)		<u> </u>		
	coil spring suspension (1934)		<u> </u>		
	enclosed fenders (1946)			<u>~</u>	
	power steering (1951)		$\overline{\checkmark}$	<u>~</u>	
	catalytic converter (1973)				~
	air bags (1988)				
	electric vehicles (1996)				
	cruise control (1999)				
	reversing camera (2002)				
	advanced turbocharging (2008)				
D	CL dealer III have a server				
Driverless cars	Students will have own resp	onses.			
On ya bike!	The first 'geared' bikes required	1			
	riders to stop, remove the whee		False		
	from the frame and flip the wheel to change the gear.				
Fun in the park					
	Some scooters have elect	ric motor	rs so riders use	less e	energy
	Modern bikes are made of	4	Toronto.		aterials like
	carbon fibre and aluminiu		, ligh	icweigiic iii	aterials like
	Roller blades became easi		on and offwho	an laces we	re replaced
	with buckles	er to get	on and on wine	sii idees we	re replaced
	• As video beca	me easie	er to create and	dishare mo	re neonle
	became interested in lear			a share, mo	те реорга
		rgeable	batteries, ma	king them	an
	economic transport optio				

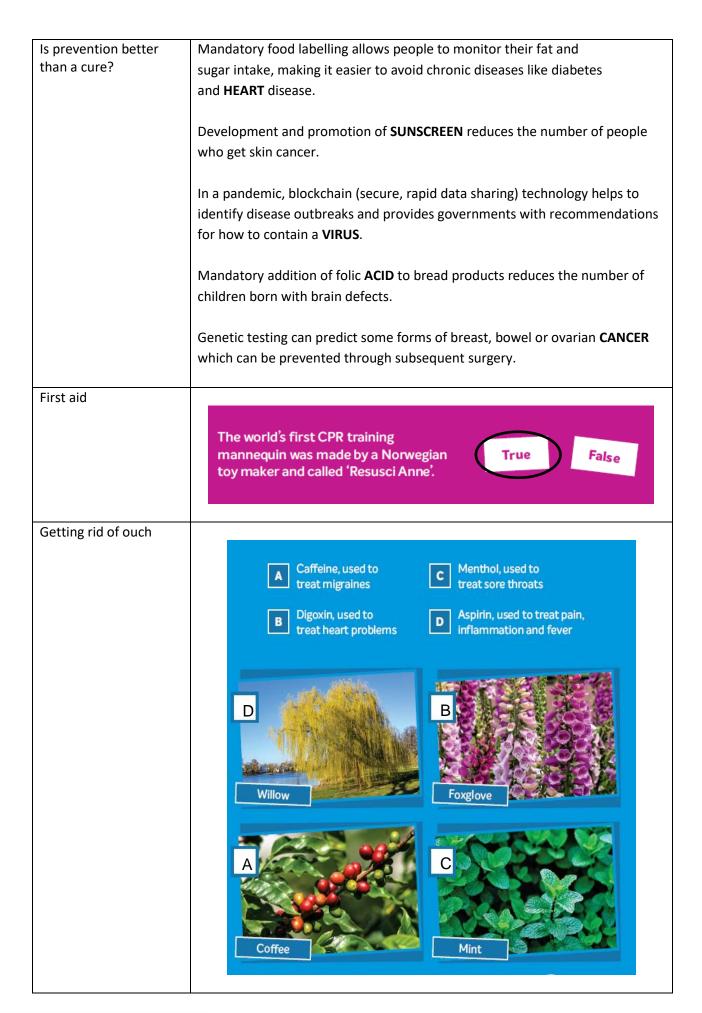


Part 3: Staying healthy

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Answers
Only one of the technologies listed below did not originate in Australia. Tick which one.
electronic pace maker cochlear implant
plastic disposable syringe spray on skin
ultrasound scanner long wearing contact lenses
x-ray cervical cancer vaccine





Activity title	Activity title Answers				
Towards ethical					
research	Modern doctors and pharmacists must adhere to a professional code of ethics (set of rules, or values) in order to be registered to practice or to undertake medical research. These rules are complex, but revolve around several important principles. Match each principle to what it means.				
	beneficence C The basic human rights of each person must be respected.				
	non-maleficence F Patients have the right to determine their own healthcare.				
	autonomy B Doctors must do things that are good for their patients.				
	justice D Benefits and costs of medical care and medicines should be distributed across society.				
	dignity A Doctors must be honest and tell their patients the truth.				
	truthfulness E Doctors must not try to hurt their patients.				

