

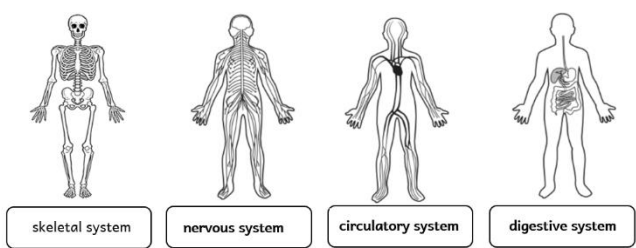
DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Educational Assessment Unit

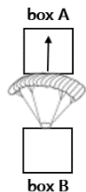
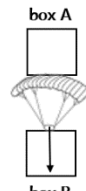
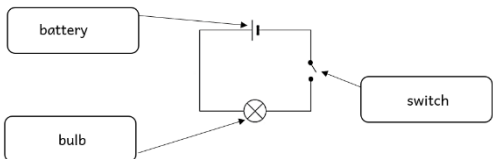
Annual Examinations for Primary Schools 2024

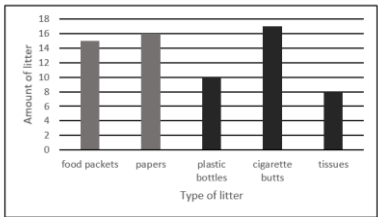
Year 6

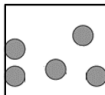
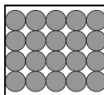
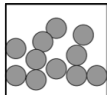
SCIENCE

MARKING SCHEME

Q no.	Answers and Requirements	Marks	Additional Guidance																				
1. a)	 skeletal system nervous system circulatory system digestive system	3	c.a.o. 1 mark for each correct answer.																				
b)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th><th colspan="3">Body Systems</th></tr> <tr> <th>Organ</th><th>Digestive System</th><th>Circulatory System</th><th>Nervous System</th></tr> </thead> <tbody> <tr> <td>heart</td><td></td><td>✓</td><td></td></tr> <tr> <td>stomach</td><td>✓</td><td></td><td></td></tr> <tr> <td>brain</td><td></td><td></td><td>✓</td></tr> </tbody> </table>		Body Systems			Organ	Digestive System	Circulatory System	Nervous System	heart		✓		stomach	✓			brain			✓	3	c.a.o. 1 mark for each correct answer.
	Body Systems																						
Organ	Digestive System	Circulatory System	Nervous System																				
heart		✓																					
stomach	✓																						
brain			✓																				
2. a)	Tick (✓) Plate C	1	c.a.o.																				
a) i.	Accept any of the following answers: The fish in Plate C is high in protein. Fish is high in protein. There is fish/fish and veg.	1	Accept any other valid answer in which there is a reference to fish as being high in protein.																				
b)	Tick (✓) Plate A	1	c.a.o. Also accept ticking of Plate D.																				
b) i.	Accept any of the following answers: The spaghetti/pasta/spaghetti and meatballs in Plate A is high in carbohydrates. Spaghetti/pasta/spaghetti and meatballs are high in carbohydrates. Cake is high in carbohydrates/because it is made of flour.	1	Accept any other valid answer in which there is a reference to pasta/spaghetti/cake as being high in carbohydrates. Do not accept cake is high in sugars/fats.																				
c)	Vitamins and/or minerals and/or fibre.	1	c.a.o.																				
d)	Accept any of the following answers: It can lead to unwanted weight gain and this can put strain on our body. It can lead to many medical problems/sickness e.g. heart disease.	1	Accept any other valid answer.																				

	Too much sugar can lead to teeth decay.		
3. a)	Tick (✓) both use the same mass of playdough and use the same size of material.	2	1 mark for each correct answer. Do not award marks if three or all boxes are ticked.
b) i.	Tick (✓) Parachute B	1	c.a.o.
b) ii.	Accept any of the following answers: Parachute B falls the slowest. Parachute B takes the longest time to fall safely.	1	Accept any other valid answer.
c) i	 box A box B	1	c.a.o. The answer shows an arrow pointing upwards.
c) ii	 box A box B	1	c.a.o. The answer shows an arrow pointing downwards.
4. a)	 battery bulb switch	3	c.a.o.
b)	Tick (✓) No	1	c.a.o.
b) i.	The switch is open/off so electricity cannot pass/flow through. It is an open/incomplete/gap/broken circuit so electricity cannot pass/flow through.	1	Accept any other valid answer.
c)	Accept solar energy and wind energy. Also accept any of the following answers: sunlight, wind, water, waves and ocean current energy, geothermal energy, biomass energy (energy that comes from plants and animals), etc.	2	1 mark for each correct answer. Accept any other valid answer. Do not accept wind vane.
5. a)	Tick (✓) the mass of the litter.	1	c.a.o. Do not award marks if 2 or more answers are ticked.

b) i.		3	c.a.o. Correct drawing for plastic bottles, cigarette butts and tissues as shown in the graph on the left. Also accept a line instead of a bar drawing. 1 mark for each correct answer.
b) ii.	cigarette butts	1	c.a.o.
b) iii.	Accept any of the following answers: Dispose of litter properly in waste and recycling bins/have dustbins available on beaches. Take an extra bag with you so that you can bring your litter home if bins are not available. Choose reusable bags/containers when going to the beach/use less plastic/do not use single use plastic. Participate in /or organise beach cleanups.	1	Accept any other valid answer.
b) iv.	Most of the litter on the beach ends up in the sea and litter such as fishing line, rope, netting and plastic packaging can trap, strangle or suffocate animals.	1	Accept any other valid answer.
b) v.	Accept any two of the following answers: Deforestation/killing plants Air pollution Water pollution and contamination Agriculture Habitat destruction Overfishing Excessive pesticide use Fossil fuel consumption and greenhouse gas emissions Exploitation of natural resources Climate change	2	Accept any other valid answer. Do not accept any answers related to littering.
6. a)	Tick (✓) Oliver	1	c.a.o.
b)	Oliver is not correct because gases do not have a fixed shape. Particles in a gas are constantly moving, are very far apart and they take the shape of the container they are in.	2	Award 1 mark if the reasoning is correct but with no reference to the word 'particles' and/or if mention of everyday example (for example, air floats around us).

	Oliver is not correct because both Gianni and Lora are correct. Particles in a gas can flow freely in every direction so they do not have a fixed shape.		Award 2 marks if the reasoning is correct and with direct reference to the word ‘particles’.																												
c)	<table><tr><td></td><td>Column A</td><td></td><td>Column B</td></tr><tr><td>1</td><td>Water becomes ice.</td><td>3</td><td>melting</td></tr><tr><td>2</td><td>Water vapour becomes water droplets.</td><td>4</td><td>evaporation</td></tr><tr><td>3</td><td>An iceberg becomes water.</td><td>2</td><td>condensation</td></tr><tr><td>4</td><td>Boiling water becomes water vapour.</td><td>1</td><td>freezing</td></tr></table>		Column A		Column B	1	Water becomes ice.	3	melting	2	Water vapour becomes water droplets.	4	evaporation	3	An iceberg becomes water.	2	condensation	4	Boiling water becomes water vapour.	1	freezing	4	c.a.o.								
	Column A		Column B																												
1	Water becomes ice.	3	melting																												
2	Water vapour becomes water droplets.	4	evaporation																												
3	An iceberg becomes water.	2	condensation																												
4	Boiling water becomes water vapour.	1	freezing																												
d)	The second box is ticked as shown in the diagram below.  ☐  ☒  ☐	1	c.a.o.																												
7.	substance vinegar gas cake taste reversed	6	c.a.o. 1 mark for each correct answer.																												
8.	<table><tr><td></td><td></td><td>True</td><td>False</td></tr><tr><td>a.</td><td>The Sun is a star found at the centre of our solar system.</td><td>✓</td><td></td></tr><tr><td>b.</td><td>Our Sun is the only star in space.</td><td></td><td>✓</td></tr><tr><td>c.</td><td>Our solar system is part of the Andromeda Galaxy.</td><td></td><td>✓</td></tr><tr><td>d.</td><td>Caroline Herschel is the first woman who discovered the first comet.</td><td>✓</td><td></td></tr><tr><td>e.</td><td>A galaxy is a huge collection of gas, dust, and stars and their solar systems.</td><td>✓</td><td></td></tr><tr><td>f.</td><td>The Milky Way is one of the planets found in our solar system.</td><td></td><td>✓</td></tr></table>			True	False	a.	The Sun is a star found at the centre of our solar system.	✓		b.	Our Sun is the only star in space.		✓	c.	Our solar system is part of the Andromeda Galaxy.		✓	d.	Caroline Herschel is the first woman who discovered the first comet.	✓		e.	A galaxy is a huge collection of gas, dust, and stars and their solar systems.	✓		f.	The Milky Way is one of the planets found in our solar system.		✓	6	c.a.o. 1 mark for each correct answer. All students were awarded a mark for question 8d.
		True	False																												
a.	The Sun is a star found at the centre of our solar system.	✓																													
b.	Our Sun is the only star in space.		✓																												
c.	Our solar system is part of the Andromeda Galaxy.		✓																												
d.	Caroline Herschel is the first woman who discovered the first comet.	✓																													
e.	A galaxy is a huge collection of gas, dust, and stars and their solar systems.	✓																													
f.	The Milky Way is one of the planets found in our solar system.		✓																												
9. a)	Accept any of the following answers: The strings vibrate. The strings move. The strings move forward and backwards. Do not accept a sound is heard.	1	Accept any other valid answers.																												
b)	Tick (✓) She hears a higher pitched note.	1	c.a.o.																												
c)	<table><tr><td>The sound waves enter the ear canal.</td><td>2</td></tr><tr><td>The inner ear sends messages to the brain to hear the sound.</td><td>4</td></tr><tr><td>The sound waves reach the outer ear.</td><td>1</td></tr><tr><td>The sound waves hit the ear drum and make it vibrate.</td><td>3</td></tr></table>	The sound waves enter the ear canal.	2	The inner ear sends messages to the brain to hear the sound.	4	The sound waves reach the outer ear.	1	The sound waves hit the ear drum and make it vibrate.	3	4	c.a.o. Award 1 mark for each correct answer.																				
The sound waves enter the ear canal.	2																														
The inner ear sends messages to the brain to hear the sound.	4																														
The sound waves reach the outer ear.	1																														
The sound waves hit the ear drum and make it vibrate.	3																														

c.a.o. = correct answer only