

DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Educational Assessment Unit

Annual Examinations for Primary Schools 2024

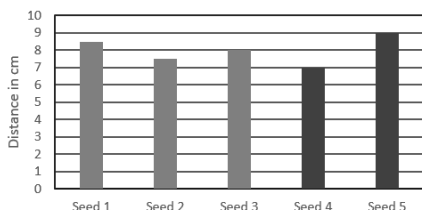
Year 5

SCIENCE

Marking Scheme

Q no.	Answers and Requirements	Marks	Additional Guidance																
1. a)	Stages in the lifecycle of a chicken  hatchling  small chicken  egg  hen  chick Correct order of lifecycle 2 4 1 5 3	4	c.a.o. 1 mark for each correct answer.																
b) i.	with a backbone	1	c.a.o.																
c)	Tick (✓) birds	1	c.a.o. Do not award marks if 2 or more boxes are ticked.																
d)	Accept any three of the following answers: growth, reproduction/lay eggs/have baby chicks, excretion, movement, sensitivity, nutrition/eating and respiration	3	c.a.o. Accept any 3 of the 7 characteristics. Do not accept birth and/or breathing.																
2. a)	deforestation	1	c.a.o.																
b)	Accept any of the following answers: Habitat loss, animal death or extinction, increase in temperature/global warming, food shortage, increase in floods/droughts, increase in greenhouse gases, soil erosion, etc.	2	1 mark for each correct answer. Accept any other valid answer.																
c)	<table border="1"> <thead> <tr> <th></th><th>Column A - Action Taken</th><th></th><th>Column B - Positive Effect</th></tr> </thead> <tbody> <tr> <td>A</td><td>Planting new trees</td><td>B</td><td>Know how to take care of the environment.</td></tr> <tr> <td>B</td><td>Educating people</td><td>C</td><td>Fewer animals become endangered or extinct.</td></tr> <tr> <td>C</td><td>Protect the species in the forest</td><td>A</td><td>Have more natural habitats for animal species and more oxygen in the air.</td></tr> </tbody> </table>		Column A - Action Taken		Column B - Positive Effect	A	Planting new trees	B	Know how to take care of the environment.	B	Educating people	C	Fewer animals become endangered or extinct.	C	Protect the species in the forest	A	Have more natural habitats for animal species and more oxygen in the air.	3	c.a.o. 1 mark for each correct answer. Also accept lines to match statements in both columns.
	Column A - Action Taken		Column B - Positive Effect																
A	Planting new trees	B	Know how to take care of the environment.																
B	Educating people	C	Fewer animals become endangered or extinct.																
C	Protect the species in the forest	A	Have more natural habitats for animal species and more oxygen in the air.																

3. a)	Column A – Word		Column B – Explanation		3	c.a.o.
	1	soluble	3	a liquid that dissolves a solid		
	2	insoluble	1	a solid that dissolves in a liquid		
	3	solvent	2	a solid that does not dissolve in a liquid		
b)	Tick (✓) filter paper in funnel				1	c.a.o.
c)	It dissolves in water.				1	c.a.o. Do not accept: It melts/disappears.
d)	Tick (✓) evaporation				1	c.a.o.
e)	Tick (✓) iron and plastic; iron and aluminium.				2	c.a.o. 1 mark for each correct answer. Do not award marks if 3 or all mixtures are ticked.
4. a)	skeleton				1	c.a.o.
b)	The skull is shaded.				1	c.a.o. Do not accept circling the skull or any other annotations.
c)	Accept any of the following answers: It protects the brain from injury. It gives support to the shape of the brain.				1	Accept any other valid answer.
d)	A circle is drawn around the knee joint.				1	c.a.o. Do not accept shading the knee joint or any other annotations.
e)	Accept any of the following answers: It connects the bones of the upper and lower leg. It is needed for any form of movement – such as running, cycling or swimming. It helps us to bend our knees/legs/for movement of legs/to run/walk/kick/jump. It supports the weight of the body.				1	Accept any other valid answer.
5. a)					2	c.a.o. 1 mark for drawing the ray of light in one straight line (from the lamp to the cake with an arrow pointing to the direction of the cake) as shown in the diagram. 1 mark for drawing the ray of light in one straight line (from the cake to Lara's eye

			with an arrow pointing to the direction of Lara’s eye) as shown in the diagram. If more than one ray of light is drawn/more than one arrow on each ray of light is drawn, award 1 mark for one ray of light, if correct.																				
b)	bounces off	1	c.a.o.																				
c)	Accept any two of the following answers: Wear sunglasses (with UV protection). Wear a wide brimmed hat. Keep out of the sun between 11am and 3 pm. Stay in the shade. Avoid looking directly at the sun.	2	Award 1 mark for each correct answer. Accept any other valid answer. Do not accept close your eyes/put on sunscreen.																				
6. a)	Tick (✓) both Sam and Maya	2	Award 1 mark for each correct answer. Do not award marks if all boxes are ticked.																				
b)	<table border="1"><thead><tr><th></th><th>Column A - Word</th><th></th><th>Column B - Meaning</th></tr></thead><tbody><tr><td>1</td><td>Axis</td><td>4</td><td>the orbit of a planet as it moves around the Sun.</td></tr><tr><td>2</td><td>Rotate</td><td>1</td><td>an imaginary line around which the Earth spins.</td></tr><tr><td>3</td><td>Hemisphere</td><td>2</td><td>a spinning movement.</td></tr><tr><td>4</td><td>Revolution</td><td>3</td><td>our planet Earth has one in the north and another in the south.</td></tr></tbody></table>		Column A - Word		Column B - Meaning	1	Axis	4	the orbit of a planet as it moves around the Sun.	2	Rotate	1	an imaginary line around which the Earth spins.	3	Hemisphere	2	a spinning movement.	4	Revolution	3	our planet Earth has one in the north and another in the south.	4	c.a.o. Award 1 mark for each correct answer.
	Column A - Word		Column B - Meaning																				
1	Axis	4	the orbit of a planet as it moves around the Sun.																				
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4	Revolution	3	our planet Earth has one in the north and another in the south.																				
7. a)	Tick (✓) The fan speed should be the same for each test.	1	c.a.o.																				
b) i.		2	c.a.o. Correct drawing for Seed 4 and Seed 5 as shown in the graph on the left. 1 mark for each correct answer. Also accept a line instead of a bar.																				
c)	Seed 5	1	c.a.o.																				
d)	Accept any of the following answers: By animals. By water. By explosion.	1	c.a.o. Also accept by humans, by gravity or falling to the ground.																				
8. a)	i. living		c.a.o.																				

	ii. microscope iii.   virus bacteria iv. probiotics	5	1 mark for each correct answer.																		
b)	i. yeast/fungi/fungus ii. Accept any of the following answers: Wash our hands regularly. Avoid touching our face. Always cover coughs and sneezes. Stay at home when feeling sick. Stay away from people who are sick. Clean and disinfect objects and surfaces regularly.	1 1	c.a.o. Accept any other valid answers such as take vaccine/medicine/visit a doctor.																		
9. a)	<table><thead><tr><th>Object</th><th>→</th><th>Main Transformed Energy</th></tr></thead><tbody><tr><td> oven</td><td></td><td>heat energy</td></tr><tr><td> light bulb</td><td></td><td>light energy</td></tr><tr><td> iron</td><td></td><td>heat energy</td></tr><tr><td> speakers</td><td></td><td>sound energy</td></tr><tr><td> fan</td><td></td><td>movement energy</td></tr></tbody></table>	Object	→	Main Transformed Energy	 oven		heat energy	 light bulb		light energy	 iron		heat energy	 speakers		sound energy	 fan		movement energy	4	c.a.o. 1 mark for each correct answer.
Object	→	Main Transformed Energy																			
 oven		heat energy																			
 light bulb		light energy																			
 iron		heat energy																			
 speakers		sound energy																			
 fan		movement energy																			
b)	light bulb	1	c.a.o.																		
10. a)	True	1	c.a.o.																		
b)	False	1	c.a.o.																		
c)	True	1	c.a.o.																		
d)	False	1	c.a.o.																		

c.a.o. = correct answer only