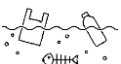
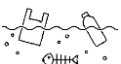
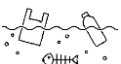


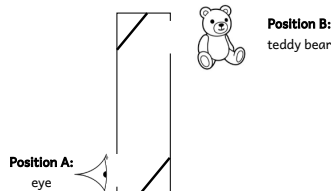
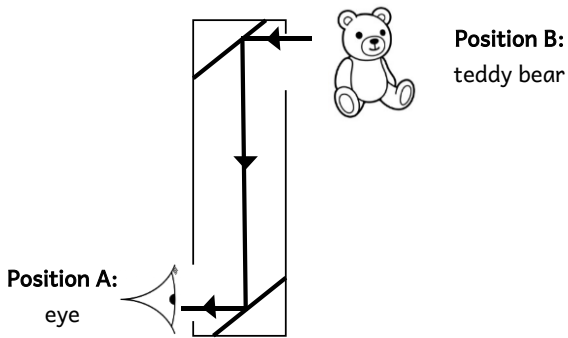
DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Directorate for Learning and Assessment Programmes
Educational Assessment Unit

Annual Examinations for Primary Schools 2022

YEAR 5	SCIENCE	MARKING SCHEME
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Q no.	Answers and Requirements	Marks	Additional Guidance																								
1. a)	Accept answers in the following order. adult child baby old person teenager <div style="display: flex; justify-content: space-around; margin-top: 5px;"> 4 2 1 5 3 </div>	4	c.a.o. 1 mark for each correct answer.																								
b)	Tick (✓) child.	1	c.a.o.																								
c)	Tick (✓) seed.	1	c.a.o.																								
2. a)	invertebrates	1	c.a.o.																								
b)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">Animal pictures</th><th>Group name</th></tr> </thead> <tbody> <tr> <td> monkey</td><td> lion</td><td> cat</td><td>mammals</td></tr> <tr> <td> crocodile</td><td> snake</td><td> tortoise</td><td>reptiles</td></tr> <tr> <td> robin</td><td> eagle</td><td> penguin</td><td>birds</td></tr> <tr> <td> newt</td><td> frog</td><td> toad</td><td>amphibians</td></tr> <tr> <td> sea bream</td><td> shark</td><td> swordfish</td><td>fish</td></tr> </tbody> </table>	Animal pictures			Group name	 monkey	 lion	 cat	mammals	 crocodile	 snake	 tortoise	reptiles	 robin	 eagle	 penguin	birds	 newt	 frog	 toad	amphibians	 sea bream	 shark	 swordfish	fish	4	c.a.o. 1 mark for each correct answer.
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c)	Accept any two of the following answers: Fish <u>live in water</u> . Fish have <u>gills</u> to breathe. Fish have <u>fins</u> for movement in the water. Fish are <u>cold-blooded</u> . Fish have <u>swim bladders</u> for buoyancy. Do not accept fish have scales. Do not accept fish swim.	2	Accept any other valid answers.																								

3. a)	Accept the following answers: i. Waterproof ii. Rain water cannot seep through the boots / enter the inside of the boots. Socks / feet will not get wet.	1, 1	1 mark for each correct answer. Accept any other valid answer.																		
b)	Accept any two of the following answers: Cotton is soft. Cotton absorbs water. Cotton is flexible. Cotton is breathable and does not irritate the skin.	1, 1	1 mark for each correct answer. Accept any other valid answer.																		
4. a & b	<table><tr><th>Change</th><th>Column A Natural or Man-made</th><th>Column B Effect</th></tr><tr><td> deforestation</td><td>man-made</td><td>Many animals lose their homes.</td></tr><tr><td> volcano erupting</td><td>natural</td><td>Animals and people can be killed by lava flow.</td></tr><tr><td> plastic in the sea</td><td>man-made</td><td>Sea creatures may get entangled/swallow or suffocate in plastic.</td></tr><tr><td> tsunami</td><td>natural</td><td>Animals and people can be killed by drowning.</td></tr><tr><td> hurricane</td><td>natural</td><td>Kill land animals / destroy natural areas / uproot plants / cause inland floods.</td></tr></table>	Change	Column A Natural or Man-made	Column B Effect	 deforestation	man-made	Many animals lose their homes.	 volcano erupting	natural	Animals and people can be killed by lava flow.	 plastic in the sea	man-made	Sea creatures may get entangled/swallow or suffocate in plastic.	 tsunami	natural	Animals and people can be killed by drowning.	 hurricane	natural	Kill land animals / destroy natural areas / uproot plants / cause inland floods.	4, 2	1 mark for each correct answer (in bold). Accept any other valid answer.
Change	Column A Natural or Man-made	Column B Effect																			
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5. a)	Accept the following answers: i. The guitar string vibrates. ii. A sound is heard.	1, 1	1 mark for each correct answer. Accept any other valid answer.																		
b)	The sound is heard <u>softer/quieter</u> . Do not accept the sound is heard slower.	1	Accept any other valid answer.																		
c)	Accept any two of the following answers: Wall, door, curtains, furniture, carpet etc.	1, 1	1 mark for each correct answer. Accept any other valid answer.																		
6. a)	<table><tr><th></th><th>Statement</th><th>True or False</th></tr><tr><td>i.</td><td>Stirring the mixture can speed up dissolving.</td><td>True</td></tr><tr><td>ii.</td><td>Sand dissolves in seawater.</td><td>False</td></tr><tr><td>iii.</td><td>Coffee and soil dissolve in seawater.</td><td>False</td></tr><tr><td>iv.</td><td>Substances that dissolve in water are soluble.</td><td>True</td></tr></table>		Statement	True or False	i.	Stirring the mixture can speed up dissolving.	True	ii.	Sand dissolves in seawater.	False	iii.	Coffee and soil dissolve in seawater.	False	iv.	Substances that dissolve in water are soluble.	True	4	c.a.o. 1 mark for each correct answer.			
	Statement	True or False																			
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iii.	Coffee and soil dissolve in seawater.	False																			
iv.	Substances that dissolve in water are soluble.	True																			
b)	Accept any one of the following answers: Salt, sugar, food colouring etc. Do not accept coffee.	1	Accept any other valid answer.																		
7. a. i.	Tick (✓) Magnet C	1	c.a.o.																		
ii.	Magnet C attracted the most paper clips / the largest number of paper clips / 5 paper clips.	2	c.a.o.																		

	Magnet A / B / D did not attract as many paper clips as Magnet C.		Award marks if reference is made to number of paper clips (seen or implied).																														
b)	<table><tr><th colspan="4">Magnet position</th><th>Attract</th><th>Repel</th></tr><tr><td>S</td><td>N</td><td>N</td><td>S</td><td></td><td>✓</td></tr><tr><td>S</td><td>N</td><td>S</td><td>N</td><td>✓</td><td></td></tr><tr><td>N</td><td>S</td><td>N</td><td>S</td><td>✓</td><td></td></tr><tr><td>N</td><td>S</td><td>S</td><td>N</td><td></td><td>✓</td></tr></table>	Magnet position				Attract	Repel	S	N	N	S		✓	S	N	S	N	✓		N	S	N	S	✓		N	S	S	N		✓	4	c.a.o. 1 mark for each correct answer.
Magnet position				Attract	Repel																												
S	N	N	S		✓																												
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c. i.	Tick (✓) nickel coin.	1	c.a.o.																														
ii.	Not all metals are magnetic.	1	Accept any other valid answer.																														
8. a)	<div><div></div></div>	1, 1	1 mark for each mirror positioned correctly. Do not award marks if the line is not straight or if not diagonal.																														
b)	<div><div></div></div>	1, 1	c.a.o. 1 mark for drawing the ray of light in a straight line. The ray of light should touch the respective mirror to indicate reflection. 1 mark for drawing the arrows in the correct direction.																														
9. a)	<table><tr><td>Circuit A</td><td>Circuit B</td><td>Circuit C</td><td>Circuit D</td></tr><tr><td>☒</td><td>☐</td><td>☒</td><td>☐</td></tr></table>	Circuit A	Circuit B	Circuit C	Circuit D	☒	☐	☒	☐	4	c.a.o. 1 mark for each correct answer.																						
Circuit A	Circuit B	Circuit C	Circuit D																														
☒	☐	☒	☐																														
b)	Tick (✓) buzzer.	1	c.a.o.																														
c)	Accept any two of the following answers: Fan, washing machine, blender/food processor, driller, electric toothbrush etc.	1, 1	1 mark for each correct answer. Accept any other valid answer.																														

10.		Column A		Column B	7	c.a.o. 1 mark for each correct answer.
	a.	I am a baby frog.	f.	Mercury		
	b.	I am a very strong wind and knock down trees.	d.	lemon tree		
	c.	I am an insect.	a.	tadpole		
	d.	I am an evergreen.	b.	gale		
	e.	I am a very strong, shiny material and a good conductor of electricity.	h.	Earth		
	f.	I am the planet with the shortest orbit.	g.	switch		
	g.	I control the flow of electricity in a circuit.	e.	metal		
	h.	I take 24 hours to rotate once on my axis.	c.	butterfly		

c.a.o. = correct answer only