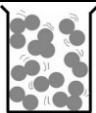
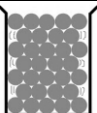
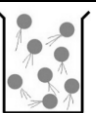
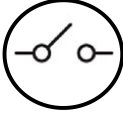


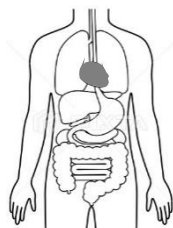
DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Directorate for Learning and Assessment Programmes
Educational Assessment Unit

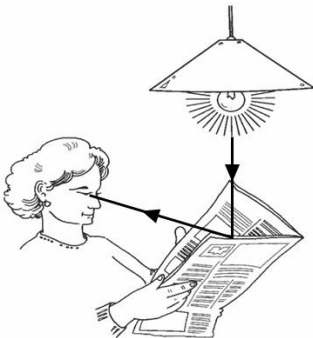
Annual Examinations for Primary Schools 2022

YEAR 6	SCIENCE	MARKING SCHEME
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Q no.	Answers and Requirements	Marks	Additional Guidance				
1.a)	Force A: air resistance Force B: gravity	2	c.a.o. 1 mark for each correct answer.				
b)	Accept any of the following the answers: Air resistance <u>slows down</u> the falling parachute/the skydiver. Air resistance acts against the force of gravity and <u>slows down</u> the parachute.	1	Accept any other valid answer.				
c)	Underline: iv. Make the parachute canopy smaller.	1	c.a.o.				
2.a)	Accept the following answers: respiration; growth Do not accept breathing.	2	c.a.o. 1 mark for each correct answer.				
b)	<table><tr><th>Column A: Living</th><th>Column B: Non-Living</th></tr><tr><td>monkey corals seaweed</td><td>water fallen leaf clouds</td></tr></table>	Column A: Living	Column B: Non-Living	monkey corals seaweed	water fallen leaf clouds	5	c.a.o. 1 mark for each correct answer.
Column A: Living	Column B: Non-Living						
monkey corals seaweed	water fallen leaf clouds						
c)	Accept any two of the following answers: <ul style="list-style-type: none">Animal <u>habitats/homes</u> are destroyed/broken down.Without trees, animals <u>have no/less protection</u> from predators.Animals have <u>less food</u>.	2	1 mark for each correct answer. Accept any other valid answer.				
d)	Accept the following answers: <ul style="list-style-type: none">Trees <u>provide oxygen/good air/clean the air</u> we breathe.Trees <u>store/absorb harmful carbon</u>.Tree roots <u>filter/absorb rain water</u> and <u>reduce risks of natural disasters</u> such as floods and landslides.Trees are <u>homes to many animals</u> and creatures.Trees <u>provide protection</u> to animals.Trees are a <u>source of food</u>.Trees provide <u>shade/shelter</u>.	1	Accept any other valid answer.				

3.a)	   gas solid liquid	3	c.a.o. 1 mark for each correct answer.
b)	By <u>heating</u> the water.	1	Accept any other valid answer.
c)	   liquid solid gas	3	c.a.o. 1 mark for each correct answer.
4.a)	echo Also accept reflection of sound.	1	c.a.o.
b)	Accept any of the following answers: An echo is produced when sound is <u>reflected</u> from a hard surface such as a wall. An echo is caused by a sound that is repeatedly <u>reflected</u> from a wall.	1	Accept any other valid answer.
c)	Accept any two of the following answers: <ul style="list-style-type: none"> Cover the floor in carpets/rugs. Cover the windows with curtains and walls with paintings, wall decorations or artwork. Do not accept frames as glass reflects sound. Fill the rooms with furniture, sofas, couches, cushions etc. 	2	1 mark for each correct answer. Accept any other valid answer.
5.a.i.		1	c.a.o.
ii.	Accept any of the following answers: The switch <u>controls the flow of electricity</u> in the circuit. Also accept any of the following answers: A switch can <u>stop electricity</u> from flowing in the circuit/ <u>break the circuit</u> . A switch can <u>allow electricity</u> to flow in the circuit/ <u>connect the circuit</u> .	1	Accept any other valid answer.
b)	Accept any of the following answers: The switch is <u>open/not connected</u> . <u>Electricity cannot flow</u> through.	1	Accept any other valid answer.
c)	  	1	c.a.o.

6.a)	<p>Shade the heart as in the diagram below.</p> 	1	<p>c.a.o.</p> <p>Do not award marks if other organs, apart from the heart, are shaded.</p>																				
b)	heart	1	c.a.o.																				
c)	Tick (✓) <u>walking the dog</u> and <u>playing football</u> .	2	<p>c.a.o.</p> <p>1 mark for each correct answer.</p>																				
d)	less; weight	2	<p>c.a.o.</p> <p>1 mark for each correct answer.</p>																				
e)	<table><tr><th>Column A Carbohydrates</th><th>Column B Proteins</th><th>Column C Fats and Oils</th></tr><tr><td>potatoes</td><td>fish</td><td>cake</td></tr><tr><td>spaghetti</td><td>chicken</td><td>olive oil</td></tr></table>	Column A Carbohydrates	Column B Proteins	Column C Fats and Oils	potatoes	fish	cake	spaghetti	chicken	olive oil	5	<p>c.a.o.</p> <p>1 mark for each correct answer.</p>											
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potatoes	fish	cake																					
spaghetti	chicken	olive oil																					
7.	<table><tr><th></th><th>Raw Materials</th><th></th><th>Item of Clothing</th></tr><tr><td>A</td><td></td><td>B</td><td> silk scarf</td></tr><tr><td>B</td><td></td><td>D</td><td> cotton T shirt</td></tr><tr><td>C</td><td></td><td>A</td><td> woollen hat</td></tr><tr><td>D</td><td></td><td>C</td><td> rubber boots</td></tr></table>		Raw Materials		Item of Clothing	A		B	 silk scarf	B		D	 cotton T shirt	C		A	 woollen hat	D		C	 rubber boots	3	c.a.o.
	Raw Materials		Item of Clothing																				
A		B	 silk scarf																				
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8.a)	<table><tr><th></th><th>Statement</th><th>True</th><th>False</th></tr><tr><td>i.</td><td>The Moon makes one complete revolution around the Earth every year.</td><td></td><td>✓</td></tr><tr><td>ii.</td><td>Earth's Moon has 2 phases.</td><td></td><td>✓</td></tr><tr><td>iii.</td><td>Not all planets in our solar system have moons.</td><td>✓</td><td></td></tr><tr><td>iv.</td><td>Earth's Sun is the only sun in our galaxy.</td><td></td><td>✓</td></tr></table>		Statement	True	False	i.	The Moon makes one complete revolution around the Earth every year.		✓	ii.	Earth's Moon has 2 phases.		✓	iii.	Not all planets in our solar system have moons.	✓		iv.	Earth's Sun is the only sun in our galaxy.		✓	4	<p>c.a.o.</p> <p>1 mark for each correct answer.</p>
	Statement	True	False																				
i.	The Moon makes one complete revolution around the Earth every year.		✓																				
ii.	Earth's Moon has 2 phases.		✓																				
iii.	Not all planets in our solar system have moons.	✓																					
iv.	Earth's Sun is the only sun in our galaxy.		✓																				
b)	<table><tr><th>Smallest</th><th colspan="2"></th><th>Biggest</th></tr><tr><td>Moon</td><td>Earth</td><td>Sun</td><td>Galaxy</td></tr></table>	Smallest			Biggest	Moon	Earth	Sun	Galaxy	3	<p>c.a.o.</p> <p>1 mark for each correct answer.</p>												
Smallest			Biggest																				
Moon	Earth	Sun	Galaxy																				

9.a)		2	c.a.o. 1 mark for drawing the ray of light in two straight lines as shown in the diagram. 1 mark for drawing the arrows in the correct direction.												
b)	Accept any of the following answers: Light travels <u>in a straight line</u> . Light <u>can pass through the holes</u> .	1	Accept any other valid answer.												
c)	magnifying glass	1	c.a.o.												
10.a)	<table><thead><tr><th>Column A <u>Weather Measurement</u></th><th>Column B <u>What is measured?</u></th></tr></thead><tbody><tr><td>North West</td><td>wind direction</td></tr><tr><td>F 7 – 8</td><td>wind speed</td></tr><tr><td>15 °C</td><td>temperature</td></tr><tr><td>10 mm</td><td>rainfall / rain</td></tr><tr><td>UV 5</td><td>UV index</td></tr></tbody></table>	Column A <u>Weather Measurement</u>	Column B <u>What is measured?</u>	North West	wind direction	F 7 – 8	wind speed	15 °C	temperature	10 mm	rainfall / rain	UV 5	UV index	4	c.a.o. 1 mark for each correct answer.
Column A <u>Weather Measurement</u>	Column B <u>What is measured?</u>														
North West	wind direction														
F 7 – 8	wind speed														
15 °C	temperature														
10 mm	rainfall / rain														
UV 5	UV index														
b.i.	Tick (✓) Yes.	1	c.a.o.												
ii.	The wind force is 7 to 8 which indicates it is a strong wind/a windy day.	1	Accept any other valid answer referring to wind force (seen or implied).												

c.a.o. = correct answer only