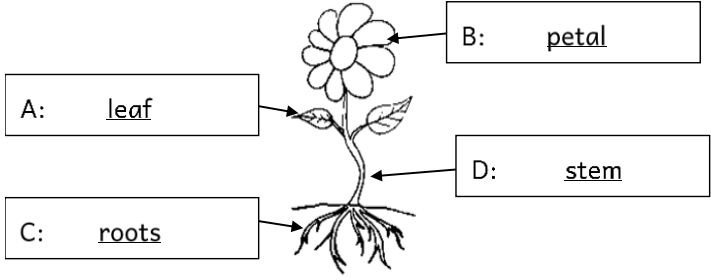


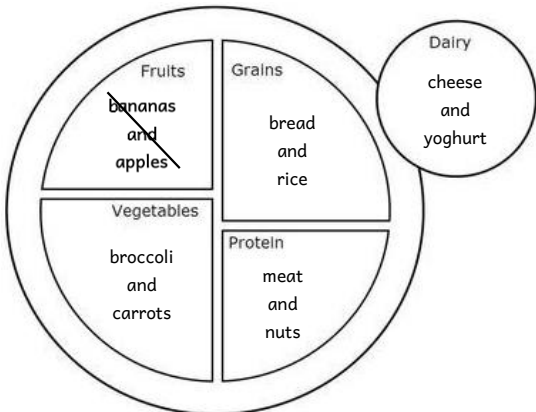
DEPARTMENT FOR CURRICULUM,
LIFELONG LEARNING AND EMPLOYABILITY
Directorate for Learning and Assessment Programmes
Educational Assessment Unit

Annual Examinations for Primary Schools 2022

YEAR 4	SCIENCE	MARKING SCHEME
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Q no.	Answers and Requirements	Marks	Additional Guidance										
1. a)	Tick (✓) Karl	1	c.a.o.										
b)	Sense of hearing. Do not accept ears.	1	c.a.o.										
c)	Sense of sight/seeing. Do not accept eyes. Also accept sense of touch.	1	c.a.o.										
d)	Circle both <u>children</u> and <u>bell</u> .	2	c.a.o. 1 mark for each correct answer.										
2. a)	Tick (✓) snail.	1	c.a.o.										
b)	Tick (✓) fox.	1	c.a.o.										
c)	Tick (✓) snail.	1	c.a.o.										
d)	Tick (✓) fox.	1	c.a.o.										
e)	Plants get their energy from the <u>sun/sunlight/light</u> .	1	Accept any other valid answer.										
3. a)	Accept any of the following answers: The bulb lights up. It is a complete circuit. Electricity flows through the circuit.	1	Accept any other valid answer.										
b)	<table><tr><th>Object</th><th>Bulb will light up</th></tr><tr><td>A. plastic ruler</td><td>✗</td></tr><tr><td>B. iron nail</td><td>✓</td></tr><tr><td>C. gold ring</td><td>✓</td></tr><tr><td>D. wooden toy</td><td>✗</td></tr></table>	Object	Bulb will light up	A. plastic ruler	✗	B. iron nail	✓	C. gold ring	✓	D. wooden toy	✗	4	c.a.o. 1 mark for each correct answer.
Object	Bulb will light up												
A. plastic ruler	✗												
B. iron nail	✓												
C. gold ring	✓												
D. wooden toy	✗												

c)	Accept the following answers: conductors; insulators	2	c.a.o. 1 mark for each correct answer.
d)	Accept the following answers: Natural material: wood / wooden toy / gold /golden ring / iron / iron nail Man-made material: plastic / plastic ruler	2	c.a.o. 1 mark for each correct answer.
4. a)	Accept the following answers: 3. Earth 5. Jupiter 8. Neptune	3	c.a.o.
b)	Mercury	1	c.a.o.
c)	Sun	1	c.a.o.
d)	telescope	1	c.a.o.
5. a)	Accept the following answers: Picture E: Tick (✓) useful Picture F: Tick (✓) useful Picture G: Tick (✓) not useful	3	c.a.o. 1 mark for each correct answer.
b. i.	Tick (✓) <u>tile floor</u> .	1	c.a.o.
ii.	The tile floor is a very <u>smooth surface</u> and therefore has <u>less friction</u> so the block will <u>travel faster/further</u> . The carpet is a <u>rough surface</u> and therefore has <u>more friction</u> so the block will not travel <u>faster/further</u> .	1	Accept any other valid answer.
6. a)	 <p>A: <u>leaf</u></p> <p>B: <u>petal</u></p> <p>C: <u>roots</u></p> <p>D: <u>stem</u></p>	4	c.a.o. 1 mark for each correct answer. Do not accept flower for part labelled B.
b)	Accept any of the following answers: Roots <u>hold plants</u> in place in the soil/ <u>anchor the plant</u> . Roots <u>take up/absorb water and minerals</u> from the soil. Roots <u>transport water</u> and minerals to the stem. Roots <u>store food</u> for the plant.	1	Accept any other valid answer.
c)	Accept any two of the following answers: <u>Sun/sunlight/light</u> and/or <u>water</u> and/or <u>air</u> . Also accept: A source of <u>nutrition</u> such as fertilizer or nutrients in soil. A <u>space</u> to live and grow. The right <u>temperature</u> .	2	c.a.o. 1 mark for each correct answer. Award 1 mark if Need 1 is the same/similar to Need 2.

d)	<p>Accept any of the following answers: Plants need <u>light/sun/sunlight to make food</u> and survive. If there is no light/sun/sunlight, the leaves will turn yellow and eventually fall off because <u>the plant does not have enough food to keep all the leaves healthy</u>. Also accept: The plant may be <u>over-watered/watered too much</u> and so the <u>soil is too wet</u> and the <u>roots cannot breathe/function properly</u>.</p>	1	Accept any other valid answer.
e)	Circle Carob tree <i>Harruba</i> .	1	c.a.o.
7.a.i.	Tick (✓) water.	1	c.a.o.
ii.	Tick (✓) roast potatoes.	1	c.a.o.
b. i.		4	<p>c.a.o. 1 mark for each correct group of words. Do not award marks if only one of the words in the group is written.</p>
ii.	<p>Accept any of the following answers: Wash hands/utensils/surfaces often/before, during, after preparing food. Store raw food such as meat, chicken or fish at the bottom of the fridge/away from cooked food. Use a different/clean cutting board for raw food. Cook food properly/at a high temperature. Do not leave food outside but store properly in the fridge.</p>	2	<p>1 mark for each correct action. Accept any other valid answers.</p>
8. a)	Tick (✓) Picture J	1	c.a.o.
b)	<p>Accept the following answer:</p> 	1	Accept any other valid answer as long as the X is marked in the area above the tree.

9. a)	Draw a cloud with rain. 	1	Accept any other valid drawing representing a rainy day.
b)	Wednesday	1	c.a.o.
c) i.	Friday	1	c.a.o.
ii.	It is <u>windy</u> on Friday.	1	c.a.o.
d) i.	Rain gauge	1	c.a.o.
ii.	Thermometer	1	c.a.o.
iii.	Anemometer	1	c.a.o.
10.	Accept the following ticked (✓) answers: ice cubes to water – <u>reversible change</u> wood to ash – <u>irreversible change</u> cake mix to cake – <u>irreversible change</u> playdough to playdough dinosaurs – <u>reversible change</u>	4	c.a.o. 1 mark for each correct answer.

c.a.o. = correct answer only