

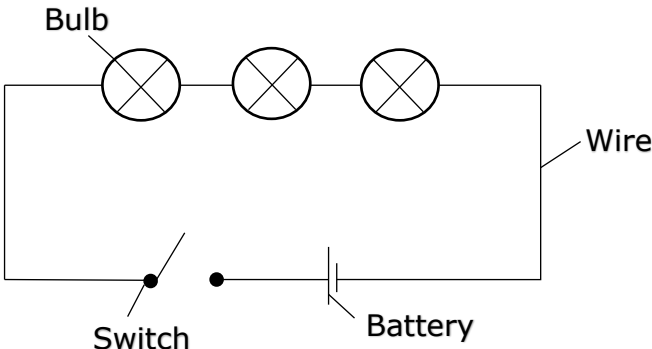
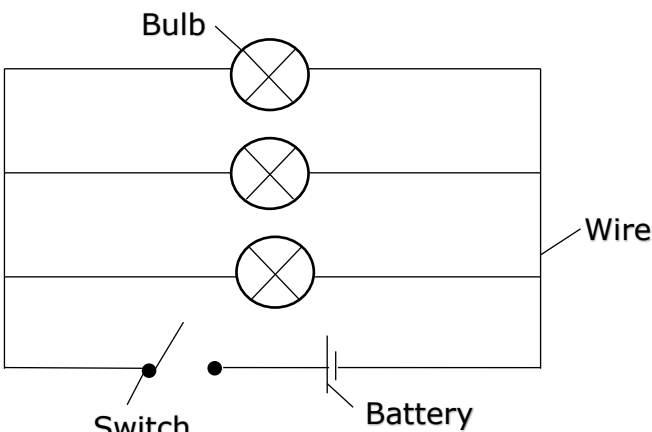
Annual Examinations for Middle Schools 2025

YEAR 7	INTEGRATED SCIENCE	MARKING SCHEME
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QUESTION			ANSWER	MARK
1.	a.	i.	C	1
		ii.	F	1
		iii.	B	1
		iv.	E	1
	b.	i.	Metres	1
			Ruler	1
		ii.	Kilogram	1
		iii.	Temperature	1
			Thermometer	1
	(Total: 9 marks)			
2.	a.		2	1
			4	1
			5	1
			1	1
			3	1
	b.	i.	16	1
		ii.	26	1
		iii.	1.6	1
	(Total: 8 marks)			
3.	Solid			1
	liquid			1
	gas			1
	boiling			1
	100			1
	evaporation			1
	condensation			1
	(Total: 7 marks)			

4.	a.	Living things accept any two of the following: girl, Lara, robin, dad, tomato plants, tomato, snail		1 1								
		Non-living things accept any two of the following: window, bed, sweater, bowl, cereal, honey, watering can, soil		1 1								
	b.	snail – do not accept any invertebrate which is not listed in the paragraph.		1								
	c.	<table><tr><td>tapping, slipped, hurried, sliding, rushing</td><td>This shows that living things move</td></tr><tr><td>sound</td><td>This shows that living things are sensitive, feel what is happening around them.</td></tr><tr><td>ate</td><td>This shows that living things take in nutrients.</td></tr><tr><td>grown</td><td>This shows that living things grow.</td></tr></table>	tapping, slipped, hurried, sliding, rushing	This shows that living things move	sound	This shows that living things are sensitive, feel what is happening around them.	ate	This shows that living things take in nutrients.	grown	This shows that living things grow.	Accept any two of the above. The marks are given if the explanation matches the correct word given. Award only one mark if the word is correct but no explanation is given.	1,1 1,1
tapping, slipped, hurried, sliding, rushing	This shows that living things move											
sound	This shows that living things are sensitive, feel what is happening around them.											
ate	This shows that living things take in nutrients.											
grown	This shows that living things grow.											
	d.	i.	Robin	1								
		ii.	They have feathers. They have wings. They are warm blooded. They lay eggs on land. Accept any two characteristics of the bird group.	1 1								
	e.	i.	Tomato plant	1								
		ii.	A plant produces its own food.	1								
		iii.	Always the first.	1								
		iv.	Lara, robin, dad, snail. Accept any one.	1								
	(Total: 16 marks)											

5.	The surface of the liquid must be horizontal.			1	
	The liquid takes the shape of the container.			1	
	There are too many spaces between the particles.			1	
				(Total: 3 marks)	
6.	a.	Chemical that can cause danger to health such as skin irritation or eye damage.			1
	b.	Use gloves. Wear safety goggles. Should not touch his mouth and eyes. Accept any correct answer.			1
	c.	i.	The pH number shows if the chemical is acidic, alkali or neutral and how strong it is. Accept any correct answer.		1
		ii.	The X needs to be marked on the diagram somewhere between 13 and 14.		1
		iii.	F F T F F		1 1 1 1 1
			(Total: 9 marks)		
7.	a.	Alkali Neutral Acid Alkali			1 1 1 1
	b.	i.	alkali neutralization		1 1
		ii.	C Since this food sample is acidic, it would increase the discomfort she is feeling by furthermore increasing the acidic levels in her stomach. Accept any correct answer.		1 1
			(Total: 8 marks)		

8	a.	If Sam touches Ben, he can risk getting electrocuted too since electricity can pass through his body too.		1	
		Accept any correct answer.			
	b.	i.	Sam is using a wooden broom stick to remove the drill. Sam is standing on a rubber mat while helping Ben.	1 1	
		ii.	This will protect Sam since both the wooden broom and the rubber mat are made of materials which are insulators and do not allow electricity to pass through. One mark is given for correct explanation and another mark is given if the student mentions the word insulators/insulation/insulate or a version of the word.	1 1	
			(Total: 5 marks)		
9	a.	Series circuit			1
	b.	The bulbs are not lit since the switch is off.			1
	c.	 Two marks given for correct symbols used. One mark given for correct setup of circuit. Labelling is not required			2 1
	d.	i.			

			Two marks given for correct symbols used. One mark given for correct setup of circuit. Labelling is not required		2 1									
		ii.	Parallel circuit		1									
	e.	i.	Circuit: B Reason: The position of the switch will not control the electrical flow. Electricity will still pass through the bulb.		1 1									
		ii.	The X should be placed anywhere in the circuit along the circuit path of the bulb.		1									
			(Total: 12 marks)											
10.	a.	cannot close together			1 1									
	b.	can far apart			1 1									
			(Total: 4 marks)											
11.	a.	i.	egg cell		1									
		ii.	sperm cell		1									
	b.	fertilization			1									
	c.	A uterus B egg tube C ovary D cervix E vagina			1 1 1 1 1									
	d.	egg tube (Accept also B)			1									
	e.	<table><tr><th>Girls only</th><th>Boys only</th><th>Both girls and boys</th></tr><tr><td>Widening of the hips. Development of breasts. Ovulation. Beginning of period. Menstrual cycle.</td><td>Deepening of voice. Development of muscle. Production of sperm cells. Facial hair.</td><td>Acne. Pubic hair. Grow taller. Armpit hair. Body odour.</td></tr><tr><td colspan="3">Accept any correct answer.</td></tr></table>	Girls only	Boys only	Both girls and boys	Widening of the hips. Development of breasts. Ovulation. Beginning of period. Menstrual cycle.	Deepening of voice. Development of muscle. Production of sperm cells. Facial hair.	Acne. Pubic hair. Grow taller. Armpit hair. Body odour.	Accept any correct answer.					1 1 1
Girls only	Boys only	Both girls and boys												
Widening of the hips. Development of breasts. Ovulation. Beginning of period. Menstrual cycle.	Deepening of voice. Development of muscle. Production of sperm cells. Facial hair.	Acne. Pubic hair. Grow taller. Armpit hair. Body odour.												
Accept any correct answer.														
			(Total: 12 marks)											

12.	a.	Animal cell: A Plant cell: B	1 1
	b.		$\frac{1}{2}$ a mark for each correct label. 3
	c.	Name of part: Cell wall Function: Provides structure and support to the plant cell Name of part: Chloroplast Function: It is the part of the plant where photosynthesis takes place. This produces the nutrients needed by the plant. Name of part: Vacuole Function: Stores water and also helps keep the shape of the plant cell by creating pressure when full of water. Accept any correct answer. The explanation of the function must match the name of the part listed. If the function described is incorrect but the plant organelle listed is correct, give one mark only.	 1 1
			(Total: 7 marks)