

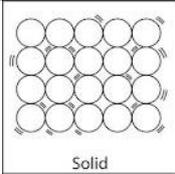
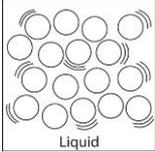
St. Benedict College Secondary School, Kirkop

Half-Yearly Examinations 2015 – 2016

FORM 1	INTEGRATED SCIENCE	MARKING SCHEME
---------------	---------------------------	-----------------------

Question	Requirement	Marks	Additional Guidelines
1a)	A; Danger to environment, B: Corrosive	1,1	
b)	i) Flammable, Irritant	1,1	
	ii)  	1,1	
2a)	A: barrel/chimney, B: air hole	1,1	A: accept either
b)	Yellow, blue	1,1	
c)	Yellow flame: sooty/silent/luminous Blue flame: clean/roaring/invisible	1, 1	Accept any one property for each
d)	After that, turn on the gas tap.	4	
	Close the air hole.	1	
	Open the air hole to obtain a blue flame.	5	
	Next, light a match.	2	
	Hold the match above the chimney.	3	
3a)	The name of a scientist and the appropriate field of specialisation	2	1 mark for the name 1 mark for the specialisation
b)	i) Stop watch	1	
	ii) ruler	1	
	iii) thermometer	1	
c)	i) Balance, measuring cylinder	1,1	
	ii) Spatula, stirrer	1,1	
d)	i) pipette	1	
	ii) funnel	1	
	iii) tongs	1	
4	You could fall into someone/ knock something over	Do not run in the lab	1,1
	You could be eating/consuming a poisonous chemical	Do not eat in the lab	1,1
	Hair can be burnt	Tie back long hair	1,1

5a)			1 mark each	
b)	i)	fuel	1	
	ii)	heat	1	
6a)		Andrea	1	
b)		It does not grow, reproduce, respond to stimuli (or sense), feed etc.	1	Accept any of these reasons
7a)		Excrete – Get rid of waste	1	
b)		Reproduce – Become a parent	1	
c)		Respire – Produce energy	1	
d)		Use senses – Smelling food	1	
8a)		The conifer tree	1	Tree can also be accepted
b)		All of the others are animals	1	
9a)		Vertebrates, invertebrates	1,1	
b)		Animals with a backbone – mouse, snake, chameleon	1,1,1	
		Animals without a backbone - jellyfish	1	
10a)		Mammals	1	
b)	i)	Mammals	1	
	ii)	It has fur, gives milk to its young, live birth	1	Accept any of these reasons
c)		Amphibians	1	
d)		Reptiles	1	
e)		Fish / Amphibians / Reptiles	1	Accept any 2.
11a)		extinct	1	
b)		Dinosaurs, great auk, Tasmanian tiger, woolly mammoth etc.	1	Accept any other possible answer
c)	i)	It has a beak	1	
	ii)	It has feathers	1	

12a)	i)	carnivore	1	
	ii)	consumer	1	
b)	i)	Lettuce → Snail → Song thrush	1,1,1	
	ii)	The flow of energy from one organism to another	1	
	iii)	Photosynthesis	1	
	iv)	Water and sunlight	1,1	Accept also light instead of sunlight
	v)	Snails would increase in numbers	1	
	vi)	The lettuce will be damaged	1	Accept any other possible answer
13a)		Desert	1	
b)		In the leaves	1	
c)		Roots, stem	1,1	
14a)	i)	Thick layer of fat	1	Accept any other possible answer
	ii)	Thick fur		Accept any other possible answer
b)	i)	Good senses of smell and hearing		Accept any other possible answer
	ii)	Strong muscles for running		Accept any other possible answer
15a)		close	1	
b)			1	
c)		melting	1	
d)			1	
16a)		Condensation	1	
b)		The water vapour that has been formed comes in contact with the cold mirror. Water vapour condenses to form water droplets.	2	

17a)	i)	Wind	1	
	ii)	Sun	1	
b)		Evaporation	1	
18a)	i)	Oil, helium	1,1	
	ii)	Oil	1	
	iii)	Aluminium	1	
	iv)	Helium	1	
b)		Gas particles have a lot of spaces between them and so can be easily compressed.	1	