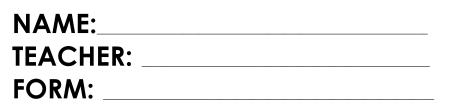
Year 9 Science

Self-assessment





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Kings Langley Sch Science Department

Topic 14 Genetics and evolution	Check 1	Check 2	Check 3	Check 4
I can define variation				
I can define characteristics				
I can state the two causes of variation				
I can define environmental variation.				
I can give two examples of environmental variation.				
I can define genetic (inherited) variation.				
I can give two examples of genetic variation.				
I can state the causes of genetic variation				
I can define gametes				
I can state the section included in a plan				
I can define a hypothesis				
I can define a prediction				
I can define the independent variable				
I can define the dependent variable				
I can explain why variables should be controlled				
I can explain how to calculate a mean				
I can describe significant figures				
I can explain why significant figures are important in				
science				
I can explain how to identify significant figures				
I can state conventions for how many sig figs to				
include when calculating				
I know how to tell if data is precise				
I know why error bars constructed				
I know how error bars constructed				
I know how error bars can provide evidence for				
confidence in the conclusion				
I can describe peer review				
I can explain why peer review is important				
I can describe a reproducible conclusion				
I can explain how know if your procedure is valid				
I can explain how you know if your result is accurate				
I can explain how you know if your conclusion is				
repeatable				
I can describe continuous variation				
I can describe discontinuous variation				
I can give an example of variation that is				
discontinuous.				
I can give an example of variation that is continuous.				
I can describe normal distribution				
I can state where DNA is found in a cell				
I can describe the structures DNA is found in				
I can state the number of pairs of chromosomes				
found in most body cells				
I can state the differences between the sex				
chromosomes in males and females				
I can state the number of chromosomes found in				
gametes				
I can explain why gametes only contain half the				
chromosomes of a body cell				
I can state the name for a section of DNA that codes				
for a characteristic				
I can define adaptation				
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I can describe natural selection.		
I can define evolution.		
I can state the name of the scientist who developed		
the theory of evolution by natural selection		
I can sate what happens to an organism that is not		
adapted to its environment		
II can explain what can happen to a species if it		
cannot adapt to changes in their environment		
I can give four examples of causes of environmental		
change.		
I can explain the extinction of the dinosaurs		
I can describe the evidence for the causes of		
dinosaur extinction		
I can explain why scientific theories sometimes		
change		
I can describe the evidence for human evolution		

Topic 15 The Earth and Atmosphere	Check 1	Check 2	Check 3	Check 4
I can define the universe				
l can define a galaxy				
I can define the solar system				
I can explain the solar system formed				
I can state the age of the solar system and the Earth				
I can define a theory				
I can describe the the evidence for the age of the				
earth				
I can describe the structure of the earth				
I can state the definition of a mineral				
I can state the definition of a metal ore				
I can define chemical weathering				
I can define physical weathering				
I can define biological weathering				
I can define erosion				
I can describe how sedimentary rocks are formed				
I can describe how an igneous rock is formed				
I can describe how the rate of cooling affects crystal				
size				
I can describe how a metamorphic rock is formed				
I can explain how the three types of rock are linked				
I can state the composition of our atmosphere				
I can state how long the earth's atmosphere has had				
its current composition				
I can explain where the Earth's atmosphere came				
from				
I can explain how the oceans formed				
I can explain why the amount of carbon dioxide in				
the early atmosphere reduced				
I can explain how the formation of coal reduced the				
amount of carbon dioxide in the air				
I can explain how crude oil and natural gas formed				
I can describe how scientists think life on Earth				
originated				
I can describe the evidence for the origins of life on				
Earth				
I can define a prokaryote				
I can state the symbol and word equations for				
photosynthesis				
I can define algae				
I can explain how the atmosphere come to contain				
oxygen				
I can describe the composition of the atmosphere				
today				
I can name three greenhouse gases				
I can explain why it is desirable to have some				
greenhouse gases in the atmosphere				
I can explain how greenhouse gases maintain the				
Earth's temperature				
I can explain how two human activities have				
increased the levels of carbon dioxide and methane				
I can state what scientists predict will be the outcome				
of increased greenhouse gases in the atmosphere				

I can explain why it is difficult to make predictions		
about the Earth's climate		
I can explain the disadvantages of trying to make predictions about the Earth's climate		
I can state four possible consequences of global temperature rise		
I can state four predicted environmental effects of global temperature rise		
I can explain the meaning of a carbon footprint		
I can explain how a carbon footprint can be reduced		
I can explain how an individual can reduce their		
carbon footprint		
I can state three causes that have increased		
methane production due to the world's rising		
population		
I can state two other reasons why it may be difficult		
to reduce every individual's carbon footprint		

Topic 16 Materials	Check 1	Check 2	Check 3	Check 4
I can define material				
I can define matter				
I can state the definition of a natural material				
I can state the definition of a synthetic material				
I can give an example of a natural material				
I can give an example of a synthetic material				
I can state one use of natural material				
I can state one use of synthetic material				
I can state the four types of material				
I can describe the structure of a metal				
I can describe the structure of ceramics				
I can describe the structure of composites				
I can describe the structure of polymers				
I can define a hypothesis				
I can define a prediction				
I can explain what to include when writing an				
evaluation				
I can state the properties of metals				
I can state some uses of metals				
I can state the definition of an alloy				
I can describe the properties of an alloy compared to				
a metal				
I can state some uses of alloys				
I can state the definition of a polymer				
I can state the force of attraction between polymer				
molecules				
I can explain why polymers are solid at room				
temperature				
I can explain why simple molecules such as oxygen				
are gases at room temperature				
I can give some examples of natural polymers				
I can give some examples of synthetic polymers				
I can describe how synthetic polymers were				
discovered				
I can describe what is meant by vulcanisation				
I can give some advantages of using plastics				
I can give some disadvantages of using plastics				
I can describe how plastics are organised into groups				
I can state the four stages of a products' life cycle				
I can state the definition of a life cycle assessment				
I can state three examples of new materials				
I can state the properties of aerogel				
I can state the properties of graphene				
I can state one use of graphene				
I can state the definition of biomaterials				
I can state one use of biomaterials				

Topic 17 Waves and radiation I can name five energy storesI can stae4 ways that energy can be transferred			
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I can define a wave			
I can describe a mechanical wave			
I can describe the motion of particles of a transverse			
wave			
I can state the type of wave a water wave is			
I can describe what happens when waves hit a			
barrier			
I can explain why waves become smaller and further			
apart as they move further from the source			
I can describe the motion of particles of a			
longitudinal wave			
I can state what type of wave a sound wave is			
I can explain why sound becomes quieter the further			
you are from the source			
I can define amplitude			
I can define wavelength			
I can define frequency			
I can state the equation for calculating frequency			
I can state what T In the frequency calculation			
represents			
I can state the most commonly-used units for			
frequency			
I can define a hypothesis			
I can describe how does length affect pitch			
I can explain why energy transferred more easily in			
solids			
I can describe how sound changes as you move			
further from the source			
I can explain why sound changes as you move			
further from the source			
I can explain why sound travels fastest in solids			
I can sate the average speed of sound in air			
What is the formula for calculating speed			
I can describe the energy transfer that takes place in			
your ears and microphones			
I can state the hearing range for humans in hertz			
I can define an echo			
I can name one organism that uses echolocation			
I can give one use of sonar			
I can give one use of ultrasound			
I can define an electromagnetic wave			
I can define a vacuum			
I can sate the average speed of electromagnetic			
waves			
I can state the relationship between wavelength and			
the energy transferred			
I can describe what happens when light hits a			
transparent object			
	L		
I can describe what happens when light hits a			

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I can describe what happens when light hits an		
opaque object		
I can draw a diagram to show a light ray		
I can define incident ray		
I can define reflected ray		
I can describe a plane mirror		
I can state the relationship between the angle of		
incidence and the angle of reflection if light is		
reflected off a plane mirror		
I can give one use of infrared radiation		
I can give one disadvantage of infrared radiation		
I can give one use of radio waves		
I can give one disadvantage of radio waves		
I can give one use of ultraviolet radiation		
I can give one use of X-rays		
I can give one use of Gamma rays		
I can describe ionising radiation		
I can explain why ionising radiation dangerous		
I can state what the acronym SPF means		
I can explain how UV beads work		
I can name the seven colours that make up visible		
light		
I can name the primary colours of light		
I can name the secondary colours of visible light		
I can define refraction		
I can define the independent variable		
I can define dependent variable		
I can state what should be included in the plan (other		
than hypothesis, prediction and variables)		
I can show where you should label a graph to show		
the IV and DV		
I can state what you should include in an evaluation		
I can describe a strategy that can be used to analyse		
scientific texts or diagrams		
I can state which part of your eye converts energy		
transferred by waves to energy transferred by		
electricity		
I can state what rod cells detect		
I can sate what cone cells detect		
I can explain how we see objects		
I can explain why we see objects as different colours		
I can describe what filters do		
I can name three types of nuclear radiation		
I can state the difference between alpha and beta		
and gamma radiation		
I can give one use of alpha radiation		
I can give one use of beta radiation		
I can give one use of gamma radiation		
I can explain why nuclear radiation is dangerous		
י כמה פגףומות איתי חטכופטו זמטומווטורוג מטרוקפוסטג		<u> </u>

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an explanation of results	•				
I can describe what should be included in an					
evaluation					

I can suggest changes you could make to an		
investigation to be more confident in the conclusion		
I can explain how scientists found out about the solar		
system		
I can recall when humans first walked on the moon		
I can explain how to explore and observe the solar		
system		
I can explain why humans are trying to colonise Mars		
I can describe some of the challenges to living on		
Mars		
I can define the big bang		
I can state the age of the universe		
I can describe the evidence for the expansion of the		
universe		
I can describe the eventual fate of the universe?		