Year 7 Science Progress Criteria 2015

	Emerging	Expected	Exceeding	Excellence
	Knowing facts and describing what is observed Using ideas in familiar contexts, explaining how and why something happens Using knowledge and understanding in a new context	Using knowledge and understanding in a new context	Breaking information down Contrasting information and seeking patterns Generalising from given information, linking ideas and making predictions	Comparing and discriminating between ideas, making choices based on reasoned argument Verifying the value of evidence
Examples	NAME the (external) parts of the body IDENTIFY the main parts of the circuit RECALL what happens when you add an acid to a metal; why we use glass for windows STATE the equation for photosynthesis RECOGNISE a reversible change DESCRIBE what you observe when you add HCl to CuCO3 COMPARE metals and non-metals. What can you tell me reacts the same as…? How is the graph of temp vs time for insulated & non-insulated different? How can you CLASSIFY these plants? How can you use the idea of forces to EXPLAIN why a boat floats in water? INTERPRET the graph of velocity vs time and tell me about acceleration and direction of the car RELATE what happens when more bulbs in series/how the cells transfer energy to the bulbs (SOLVE) How will you find out about the impact of the greenhouse effect?/shadow length in day? APPLY your knowledge of plants to ensure a runner bean grows really well/Newton and gravity to explain difference in gravity on Moon and Earth/particles to explain why smells reach you	INTERPRET the graph of velocity vs time and tell me about acceleration and direction of the car RELATE what happens when more bulbs in series/how the cells transfer energy to the bulbs (SOLVE) How will you find out about the impact of the greenhouse effect? /shadow length in day? APPLY your knowledge of plants to ensure a runner bean grows really well/Newton and gravity to explain difference in gravity on Moon and Earth/particles to explain why smells reach you	PRIORITISE the statements into correct order. Which has greatest impact on staying healthy? What do your results INFER? Explain the shape of the graph LOGICALLY explain how we see objects which are not sources of light CRITICALLY prepare a presentation either for or against Jenner's trialling methods of vaccine CONCLUDE, using your knowledge of energy transfers and different materials what happens when you increase the number of layers of insulation on a hot water tank. Do you think the outside temperature makes a difference? REFLECT about whether you agree with a statement on particles getting bigger as temperature increases. Explain DESIGN a lighting circuit for a dolls house PREDICT what happens in Antarctica, using knowledge of food chains. SPECULATE about whether the shadows on Mars will change in the same way as on Earth	SUMMARISE your reasons for the success of your experiment JUDGE which ideas you consider gave the most information EVALUATE how good your results were. How well did they support your conclusions? If you repeat the investigation, what would you improve?