Year 9 Science Assessment 1 Preparation

Use this table to help you revise. Use the web pages linked to the QR codes to revise a topic and then answer the questions to the right. There are also summary sheets on the school website for you to use: https://www.pensbyhighschool.org/students/year-9-revision-learning-materials/

Topic	R	A	G	QR code	Facts I Need to Know
Genetics and Evolution					1. Identify different types of environmental variation and explain the causes. 2. Identify different types of inherited variation. 3. Describe the relationship between chromosomes, genes, DNA, genetic information and nuclei? 4. Explain how organisms become endangered or extinct. 5. What is Darwin's theory of evolution?
Plant Growth					1. Explain how the rate of photosynthesis can be affected 2. What factors can limit the rate of photosynthesis? 3. Explain how substances enter and leave the plant 4. Explain how and why plants make different substances 5. How do farmers make sure their crops grow well? 6. What are the advantages and disadvantages of different farming methods?
Polymers and Recycling materials					1. Give and example and use of 3 different types of ceramics 2. Give 3 properties of polymers and link each to a use 3. What is a composite material? 4. State the 3 methods of disposing of polymers
Reactivity					1. What is the difference between a physical change and a chemical reaction? 2. What is the reactivity series and how can we use it to predict reactions? 3. Would sodium displace copper? Why? 4. How are iron and aluminium extracted from their ores? Why is the same method not used?
Earth and Space					1. Why do we have different seasons? 2. Draw the magnetic field around the Earth. 3. What are the differences between mass and weight? 4. What are artificial satellites used for? 5. What are the differences between comets and asteroids?
Forces Fields and Electromagnets					1. What does the gravitational field around the Earth look like? 2. What is happening inside a wire when an electric current flows? 3. What is the effect of increasing resistance on the current? 4. What do you need to measure to calculate the resistance of a piece of wire? 5. How do you build an electromagnet? 6. Where are electric motors used?