Year 8 Exam Preparation

revise a topic and then an

able to help you revise. Use the web pages linked to the QR codes to

questions to the right. There are more questions on Educake and other resources on the school website QR code Topic Facts I Need to Know Α What are the 5 nutrient types? Food & Diet How do you test of starch? What is the job of each nutrient? **†** • • Name some types of malnutrition and what causes it. Recall the main parts of the digestive system Digestion & Healthy Explain the use of enzymes. Absorption Diet What are the 5 kingdoms of living things? Plant What is asexual reproduction? reproduction How can plants reproduce asexually? What are the male/female parts of a flower? What happens during pollination? pollination Types of What do seeds need to grow? reproduction What is photosynthesis? Cellular Can you identify the gasses humans breathe in and out? Respiration Can you write the word equation for respiration? Can you label the parts of the human respiratory system? Gas Can you describe the functions of parts of the human respiratory system? Can you explain why alveoli need a large surface area? exchange Respiration Can you explain how exercise effects breathing rate? system Unicellular State the difference between unicellular and multicellular organisms Can you create food chains using information on organisms? Organisms Why does every organism in a food chain depend on photosynthesis? Explain why anaerobic respiration of bacteria is needed to make cheese Describe how yeast is useful in baking and brewing. Diffusion Bacteria Explain how carbon moves through the carbon cycle Combustion What is the word equation for combustion? Write a word equation for the oxidation of magnesium What pollutants does burning gas cause? Greenhouse How is the greenhouse effect caused? Combustion effect The Periodic Can you name common chemical symbols for elements? Table What is the difference between chemical and physical properties? Can you calculate the number of atoms in a molecule? Can you identify states of matter by their melting points? Periodic Atoms and Can you label regions of the periodic table? Table molecules Reactions of Can you describe the properties of metals and non-metals? Do you know the job of a catalyst? metals Write the word equation for a metal reacting with water Describe what the reactivity series shows What type of salt is made when hydrochloric acid reacts with sodium? Explain why the properties of alloys are different from the metals they are made from. Describe what happens to particles during changes in state Fluids Describe how gas pressure can be increased. Explain why some things float but others sink Describe what causes drag force Can you label a reflected light ray and angles of incidence / reflection? Light Can you draw a diagram to show refraction? Can you describe the link between angles of incidence and refraction? What are the similarities between cameras and eyes Explain why a blue book appears blue Energy Explain what happens to particles when water evaporates What material is a good conductor? Transfer Where can convection happen? What colour radiates heat best? What does an 'energy efficient' light bulb mean? Why is there a payback time for installing solar panels on your roof? Forces & Describe the motion of a moving car if the forces on it are equal. How would it change if the forwards force was bigger? Motion What is the Law of conservation of energy? How do you calculate speed? Describe the line that shows a stead speed on a d-t graph. How do you calculate the moment (turning effect) of a force?