1. Physics – Light (Refraction) a) Draw a ray diagram showing the bending of light. b) Will the ray bend towards or away from the normal? c) Calculate the angle of refraction using Snell’s Law. (Take sin 45° = 0.707)

2. Chemistry – Acids, Bases, and Salts a) Write the balanced chemical equation for this reaction. b) Name the gas evolved and how you can test for it. c) What type of salt is formed?

3. Biology – Life Processes a) Explain the process of photosynthesis with a neat labelled diagram. b) Why are stomata important in this process? c) What will happen to photosynthesis if carbon dioxide is completely removed from the environment?

4. Environmental Science – Our Environment a) Define the term biodegradable. b) Give two examples each of biodegradable and non-biodegradable substances.