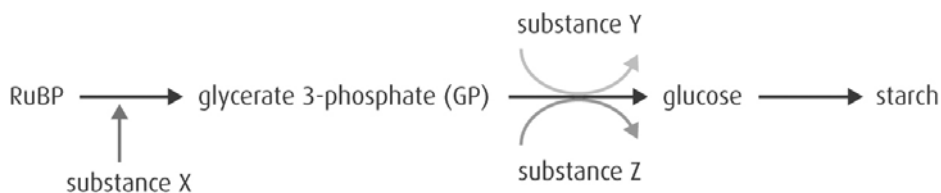


Extension worksheet – Chapter 8

- 1 The diagram below shows part of the light-independent reactions of photosynthesis.



- a** Identify substances X, Y and Z. (3)
- b** State where in the chloroplast this reaction occurs. (1)
- c** State what GP is used for, apart from the production of glucose. (1)
- d** What reaction occurs during the formation of starch from glucose? (1)
- 2 Comment on the following statements.
- a** Protein and amino acids are respired if an organism is starving. (3)
- b** In the desert, a camel stores and respire fat rather than carbohydrate. (3)
- c** Reactions of the Krebs cycle may stop the process of glycolysis. (2)
- 3 Draw a suitable chart to summarize the reactions of respiration. (7)
- 4 **a** Draw and label a chloroplast to show the main features seen using an electron microscope. (3)
- b** Annotate your diagram with the functions of the important structures. (3)
- 5 Summarize the importance of photosynthesis to life on Earth. (4)