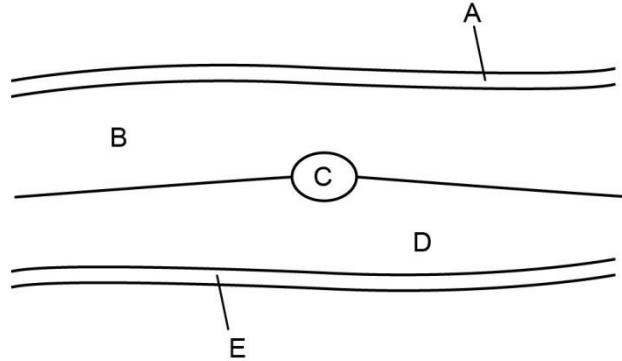


Name _____ Class _____ Date _____

1 Write down the word equation for **photosynthesis**.

_____ + _____ → _____ + _____

2 The diagram shows the arrangement of different tissue layers in a leaf.

a Write the letter for the layer that contains the most **chloroplasts**. _____

b Write the letter for the layer in which most photosynthesis occurs. _____

c Write the letter for the layer that contains **stomata**. _____3 a From what sugar do plants make **starch**? _____

b Name one other substance made from this material. _____

c What do plants use starch for? _____

4 What process do plants use to release energy as they need it? _____

5 a What is **biomass**? Tick the best answer.

- the materials in an organism
 the waste produced by an organism
 another word for energy
 the mass of material an organism eats

b Explain why animals need plant biomass. _____

c Where does all the energy in a garden **food chain** originally come from? _____

6 Complete the table below to explain how each of the features of a leaf is an adaptation for photosynthesis.

| Feature | How this helps photosynthesis |
|--------------------|-------------------------------|
| large surface area | |
| chlorophyll | |
| stomata | |

7 In photosynthesis, the reactants store less energy than the products. What sort of process is this? Tick one.

- exothermic
 homeothermic
 mesothermic
 endothermic

Some of these words may help you answer the questions.

| | | | | | | | |
|-----|--------|----------------|----------------|--------|------------------|---------------------|--------------------|
| Sun | oxygen | glucose | carbon dioxide | energy | cellulose | gas exchange | respiration |
|-----|--------|----------------|----------------|--------|------------------|---------------------|--------------------|