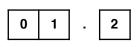


Complete the following equation for photosynthesis.



Describe the route by which the carbon dioxide and water enter the leaf for a plant living on land.

Carbon dioxide from the air [1]; through stomata [1]

Carbon dioxide + Water  $\rightarrow$  Glucose + oxygen.

**TOP TIP :** Plants in water get their CO<sub>2</sub> through the leaves from the water. Algae don't need vascular tissue because they are so tiny

[1 mark]

Water from the soil/roots[1]; through the xylem/vascular bundles [1]

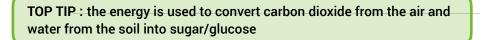
## [4 marks]



Plant leaves have palisade cells. Palisade cells contain special structures called chloroplasts. Explain how chloroplasts assist with the process of photosynthesis.

(contain chlorophyll) to absorb light/sunlight or light energy [1]

## to produce glucose or sugar [1]



[2 marks]



Glucose is a product of photosynthesis. Give 3 uses of glucose by plants.

- 1. any 3 from: respiration [1]; produce starch [1]; produce protein [1]
- 2. produce cellulose/cell walls [1]; produce fats/oils [1]
- 3. \_\_\_\_\_

## [3 marks]