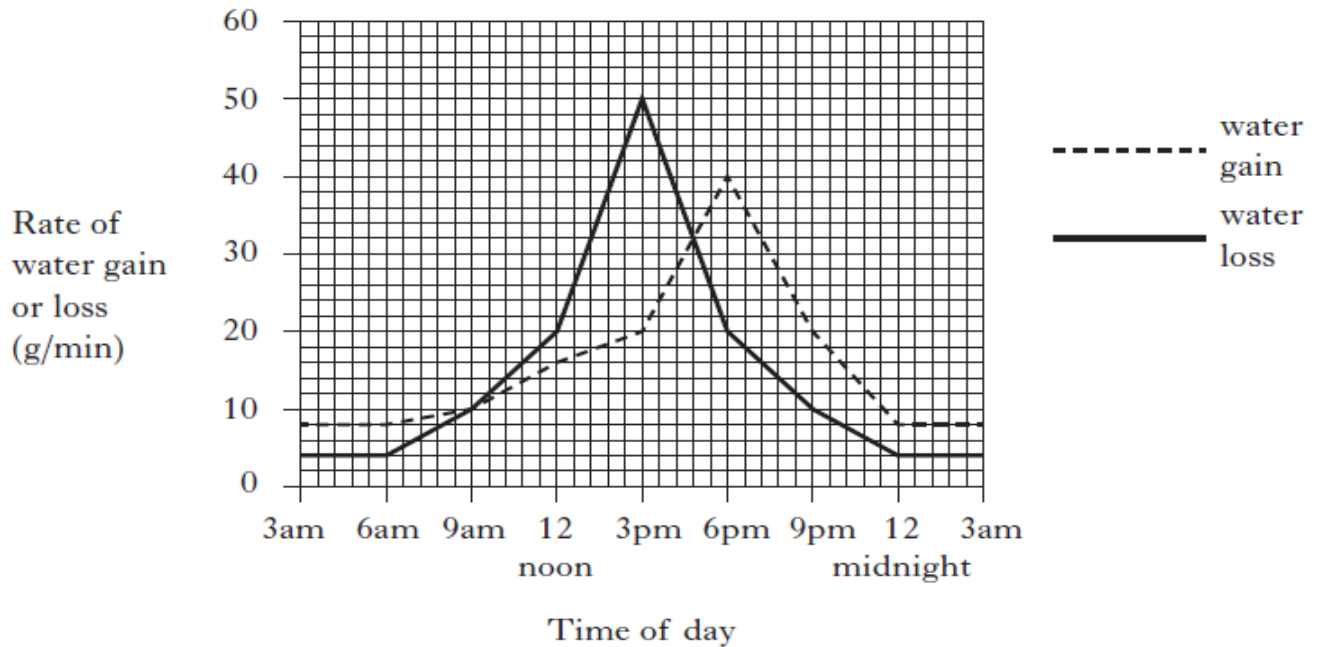


Key Area 2.5

Homework 1

1. The following graph shows the rate of water gain and water loss by a plant during a 24 hour period in summer.



- (i) How long after the time of maximum water loss did the plant show its maximum water gain?

Space for calculation

_____ hours

PS1

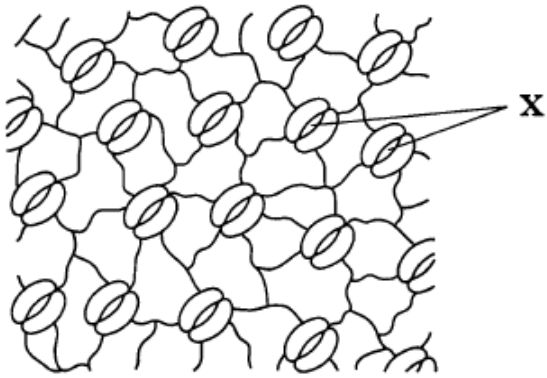
- (ii) At what time in the morning did the rate of water gain exactly balance the rate of water loss?

PS1

- (iii) Name the process by which plants lose water by evaporation.

KU1

2. The diagram shows the lower surface of a leaf. The pores marked X are the stomata.

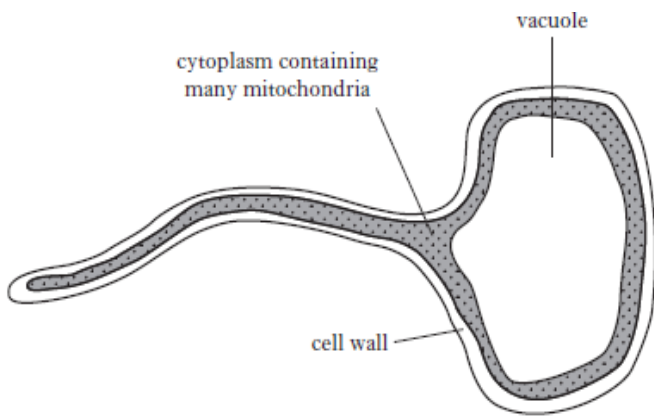


(i) Which gas, needed for photosynthesis, is taken in through these pores? KU1

(ii) The pores are able to open and close. Which substance, important for the growth of the plant, is conserved when the pores are closed?

KU1

3. The diagram shows a cell from the root epidermis of the Spanish reed.



Name this type of cell and describe how it is specialised for the absorption of water from the soil.

Type of cell _____
KU1

Description _____
KU1