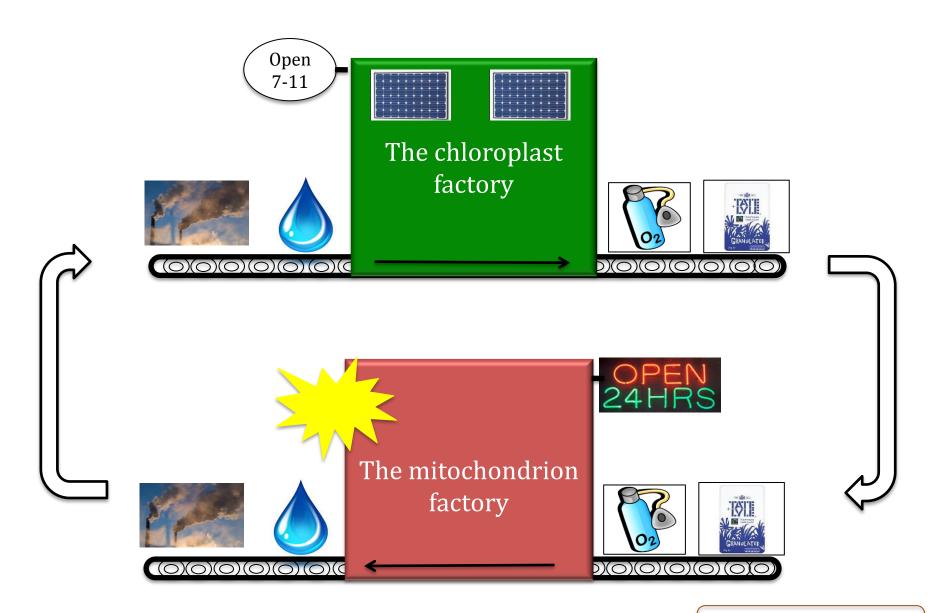
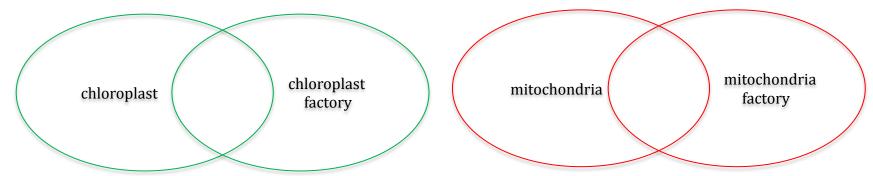
Topic	Photosynthesis and respiration	Level	Key Stage 3 and GCSE
Outcomes	 To write word equations for photosynthesis and respiration To describe and explain the relationship between respiration and photosynthesis To evaluate a model 		



The Leaf Factories

- 1. What are the names of the processes that happen inside each factory? Use the diagram to write word equations for each process.
- 2. Look at the the chloroplast factory. Why does it not work at night?
- 3. Circle the most important product of each factory. Explain your choice.
- 4. Can you use this diagram to describe and explain the relationship between respiration and photosynthesis in plants?
- 5. The mitochondrion factory is open 24 hours a day. How is this possible if the chloroplast factory is closed during the night time?
- 6. Animal cells do not have chloroplasts. Where do animal cells get their glucose from?
- 7. Complete the Venn diagrams below to compare the models to the real organelles.



8. How have the leaf factories helped you to understand photosynthesis and respiration in plants?