

Biology- Key Stage 3

Lesson 2 - Plants and Photosynthesis

# Photosynthesis

Miss White



# Quick Check

1. In which organelle does photosynthesis take place?
2. What is the name of the green pigment inside this organelle?
3. Where does a plant get energy from?



# Independent activity

How does a plant obtain its food?

- Include the equation in this part of your answer
  - Think about what else you could include (where the reactants come from etc)
- Words you must use in your answer
    - Stomata
    - Water
    - Chlorophyll
    - Roots
    - Chloroplast
    - Oxygen
    - Glucose
    - Photosynthesis



# Quick Check

**1. Write the word equation for photosynthesis** - Name the reactants then put an arrow then the products

**2. Name the chemical used to test if a plant is producing glucose**

<sup>4</sup> If we add \_\_\_\_\_ solution we will see if a plant is producing glucose

**3. Describe a test you could do to check if a plant is releasing oxygen**

If we place a plant in \_\_\_\_\_ we will be able to see \_\_\_\_\_ bubbles being produced.



# Quick Check

1. What is our independent variable?
2. Predict the colour change for the leaf of the plant placed by the window
3. Predict the colour change for the leaf of the plant placed in the dark



# Independent activity

Why do leaves on the tops of trees grow larger than those lower down the tree trunk?

- Think about what the lower leaves are getting less of and the impact of this.

- Words you must use in your answer
  - Photosynthesis
  - Light
  - Less
  - More

