

# Plants and Photosynthesis

## Lesson 4- Rate of Photosynthesis

Biology - Key Stage 3

Miss White



Use your prior knowledge to match the variable to the correct description

**Independent**

**The variable that is kept the same**

**Dependent**

**The variable that changes**

**Control**

**The variable that is measured**



# Practical Planning

- 1) What is our independent variable?
- 2) What is our dependent variable?
- 3) What are our control variables?



## Results - Calculate the mean

Distance of light from plant (cm)	Number of bubbles per minute			
	1	2	3	Mean
20	35	33	34	34
40	24	25	23	
60	15	17	16	
80	4	10	3	
100	3	3	2	

4



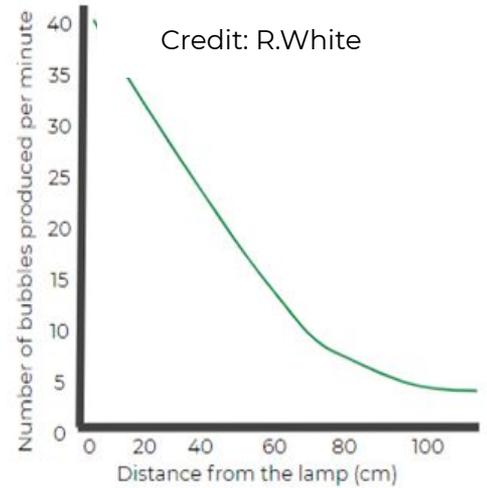
# Conclusion

As the distance from the lamp increases....

The data that supports this is

5

This is because...

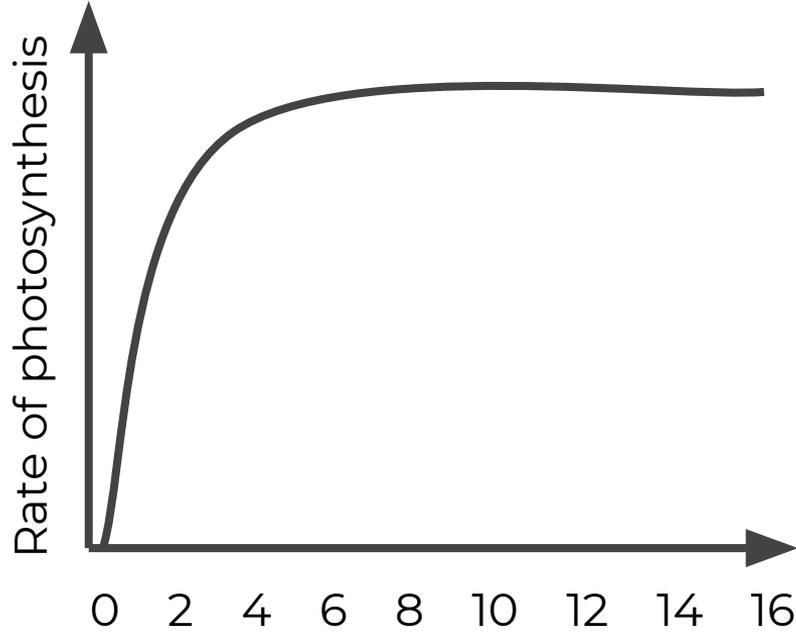


# 1. Put the steps of the method in order

Number	Step in method
	Place a lamp at 0 cm
1	Put the pondweed in some sodium hydrogen carbonate solution
	Turn on the lamp
	Put a metre ruler on the desk
	Start a timer and count how many bubble you see in 60 seconds
	Move the lamp closer and repeat
	Place the pondweed at 100cm



## 2. Use the graph to identify what conditions a gardener should use in her greenhouse, explain.



Explain your choice of carbon dioxide concentration.

- What made you choose it from the graph?
- What else do you know about photosynthesis?
  - Where does the carbon dioxide go
  - What is it used for?



## Space to complete task 2

