

Plants and Photosynthesis

Lesson 12 - Review 2

Biology - Key Stage 3

Miss White

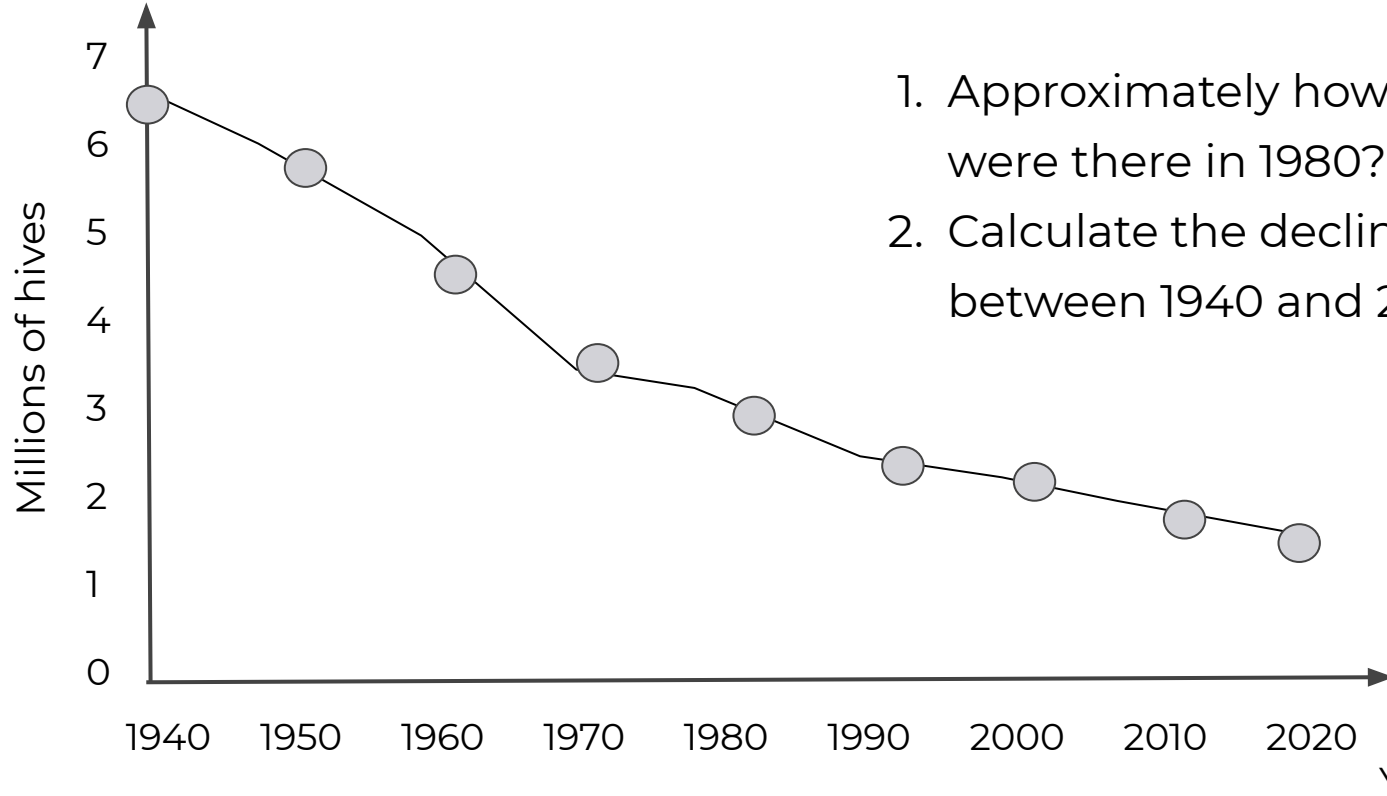


Prior learning check

1. What are producers?
2. Name 2 groups of organisms which are producers
- 2
3. What is pollination?
4. Name two ways pollination can happen



Bees are very important for pollination



1. Approximately how many hives were there in 1980?
2. Calculate the decline in hives between 1940 and 2020

Source: Miss White



Explain how a decline in pollinating insects could affect food supplies across the world.

Choose the correct word in each sentence and rewrite your answer

4

Bees **pollinate/photosynthesise** plants which increases **respiration/reproduction** If there were fewer bees and other pollinators this will **increase/decrease** the number of crops and plants which will affect **water/food** supplies.



Slash and burn

Explain two ways this technique increases carbon dioxide levels

- Consider the impact on photosynthesis and why?
- Burning is combustion so what impact will this have?



Copy and complete

Active transport is the movement of molecules from areas of _____ concentration to areas of _____ concentration, _____ the concentration gradient.

This process requires _____ which is released from the _____ during _____.

Mitochondria Low Respiration High Against Energy



Match-up Task

Independent Variable

The variable I measure

Control Variables

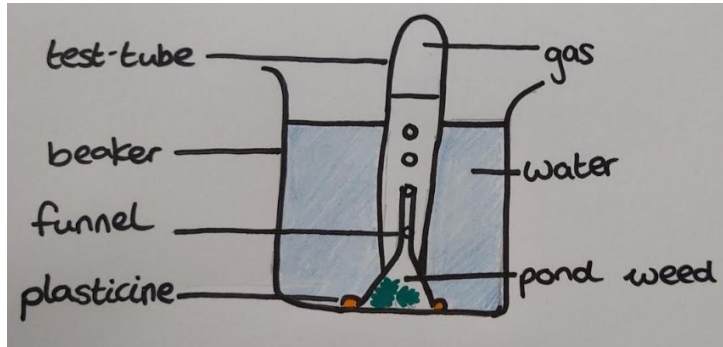
The variable I change

Dependent Variable

The variable I keep the same



A student measured the rate of photosynthesis using pondweed

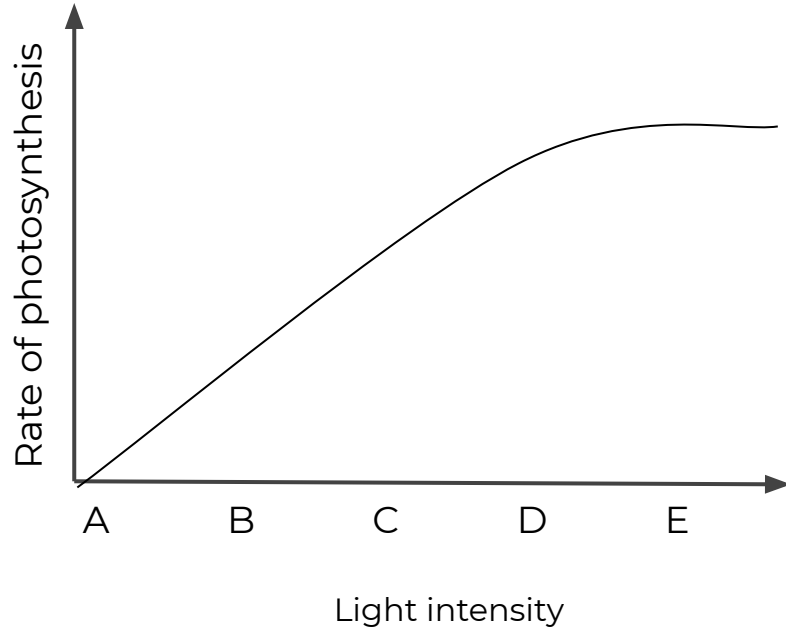


1. Name the gas given off
2. What two substances are taken in by the plant for photosynthesis?

Source: Miss White



Here are the students results in a graph



1. Identify the independent variable
2. Identify the dependent variable
3. Which letter corresponds to the light intensity at which the rate of photosynthesis reached its maximum?

Source: Miss White



What **two** pieces of evidence did Van Helmont use to reach this conclusion?

Explain why the mass of the willow tree increased by such a large amount?

Give **two** environmental conditions which can slow down the growth of a plant, even when it has plenty of water.

