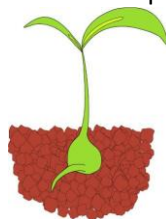


Photosynthesis - Student Activity

Photosynthesis: Plants bring together carbon dioxide and water in the presence of sunlight to produce simple sugars. They use these sugars to provide energy for their growth, reproduction and repair. The process also releases oxygen into the atmosphere.



Write the equation for photosynthesis.

AIM To demonstrate that oxygen is a by-product of photosynthesis

Materials

- A large basin or glass pneumatic trough
- Some water plants
- Water
- A large glass test tube
- A retort stand, and clamp
- A glowing splint or taper. Sunshine or a laboratory/microscope lamp

Method

1. Almost fill the basin with water
2. Add the water plants
3. Submerge the test tube then invert it without removing it from the water. The tube should be full of water.
4. Move the tube so that it is above the plant but leave its mouth still under water
5. Adjust the stand and clamps to hold the test tube in this position
6. Place the lamp so that it shines on the plant continuously.
7. Observe
8. When the test tube is almost filled with gas, keep it upside down and remove it from the water.
9. Place the glowing splint at the mouth of the test tube.
10. Observe.

Observations

Conclusion
