

# Keywords: Spring 2

## Science

### **Topic Title: Plants**

**Introduction to the topic: Why are you learning it and how does it link to what you've learned before?**

**This topic is really important because plants are a fundamental part of life on Earth and this builds on our previous topic of cells.**

**What lessons will you cover during the topic?**

**Flowers, roots, leaves, photosynthesis and plant organs.**

<b>Keyword</b>	<b>Definition</b>
<b>Chloroplast</b>	Contains the green pigment chlorophyll; the site of photosynthesis.
<b>Chlorophyll</b>	The green chemical inside the chloroplasts of plant cells. It enables photosynthesis to take place.
<b>Glucose</b>	A simple sugar used by cells for respiration.
<b>Photosynthesis</b>	A chemical process used by plants to make glucose and oxygen from carbon dioxide and water, using light energy. Oxygen is produced as a by-product of photosynthesis. Algae subsumed within plants and some bacteria are also photosynthetic.
<b>Carbon dioxide</b>	A gaseous compound of carbon and oxygen, which is a by-product of respiration, and which is needed by plants for photosynthesis.
<b>Light energy</b>	Visible electromagnetic radiation.
<b>Xylem vessels</b>	Narrow, hollow, dead tubes with lignin, responsible for the transport of water and minerals in plants.
<b>Stomata</b>	Tiny holes in the epidermis (skin) of a leaf. They control gas exchange by opening and closing and are involved in loss of water from leaves. Singular is stoma.