| FEDERATION OF FOLLIFOOT&SPOFFORTH CHURCH OF ENGLAND PRIMARY SCHOOLS Love Learn Thrive |   | Plants<br>KS2 Science Knowledge Summary   |   |
|---|---|---|---|
| Specific V  | ocabulary & definitions (meanings)  | Facts to know by the end of the sequence  | Interesting Resources   |
| roots   | These anchor the plant into the ground and absorb water and nutrients from the soil.  | What Does a Plant Need to Grow?   | www.bbc.co.uk/programmes/articles/<br>Mf5rhbTkHLZ3fbJzScyDvC/primary-   |
| stem  | This holds the plant up and carries water and<br>nutrients from the soil to the leaves. A trunk is the<br>stem of a tree.   |   | science-plants  |
| flower / petals   | These make seeds to grow into new plants. Their petals attract pollinators to the plant.  | food and       water     light       nutrients     air       from the soil  | Parts of a flower and pollination:<br>www.youtube.com/watch?v=djPVgip   |
| leaves  | These make food for the plant using sunlight and carbon dioxide from the air  | Different plants vary in how much of these things they need. For example, cacti can survive in areas with little water, whereas water lilies need to live in water.                               | bdU&feature=youtu.be  |
| oxygen  | Oxygen is used by animals and plants in the respiration (breathing) process.  | How Water Moves   | KS2 Science<br>Year 3 Workout All available from  |
| germination   | When a seed starts to grow.   | through a Plant<br>1. The roots absorb  | Amazon.co.uk  |
| pollination   | When pollen (a fine powdery substance<br>produced by a flowering plant) is moved from<br>the male anther of a flower to the female stigma.  | water from the soil.<br>2. The stem transports<br>water to the leaves   | Plant Life  |
| pollinator  | Animals or insects which carry pollen between plants. Examples include birds, bees and bats.  | 3. Water evaporates<br>from the leaves.<br>4. This evaporation<br>causes more water to  |   |
| nutrients   | These substances are needed by a living things<br>to grow and survive. Plants get nutrients from the<br>soil and also make their own food in their leaves.  | ha suched up the stam   | TREES, LEAVES,<br>FLOWERS & SEEDS<br>SAFAR  |
| photosynthesis  | Photosynthesis is a chemical reaction that takes place in the leaves of a plant, producing food for   | The water is sucked up the stem like water being sucked up through a straw.   |   |
| carbon-<br>dioxide  | the plant to survive. Carbon dioxide, water and<br>light are all needed for photosynthesis to take<br>place.  | Life Cycle of a Flowering Plant<br>Germination<br>The seed starts<br>to grow.<br>Growing<br>and Flowering   | At the end of the topic, I can:   |
| fertilisation   | When the male and female parts of the flower<br>have mixed in order to make seeds for new<br>plants.  | seeds are moved<br>away from the<br>parent plant.<br>Fertilisation and<br>Pollination   | <ul> <li>Identify and describe the functions<br/>of different parts of flowering plants:<br/>roots, stem/trunk, leaves and flowers</li> </ul>   |
| seed dispersal  | A method of moving the seeds away from the parent plant so that the seeds have the best chance of survival.   | Seed Formation<br>The pollen joins with<br>an <u>ovule</u> and a seed<br>starts to form.<br>Pollen from the<br><u>anther</u> lands on the<br><u>stigma</u> and travels<br>down the <u>style</u> . | <ul> <li>Investigate the way in which water is<br/>transported within plants</li> <li>Explore the requirements of plants</li> </ul>   |
| carpel  | The female parts of the flower. Made up of the<br>stigma, style and ovary. The job of the style is to<br>hold up the stigma. The stigma collects the pollen<br>when a pollinator brushes by it. The ovary<br>contains the ovules, which are the part of the<br>flower that gets fertilised and eventually<br>becomes the new seed | petal stigma<br>anther ovary  | <ul> <li>for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant</li> <li>Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation</li> </ul> |
| stamen  | The male parts of the flower. The stamen is made<br>up of the anther and the filament. The filament's<br>job is to hold up the anther. The job of the anther<br>is to make the pollen.  | stamen sepal stem stem stem stem stem stem stem stem  | and seed dispersal.   |