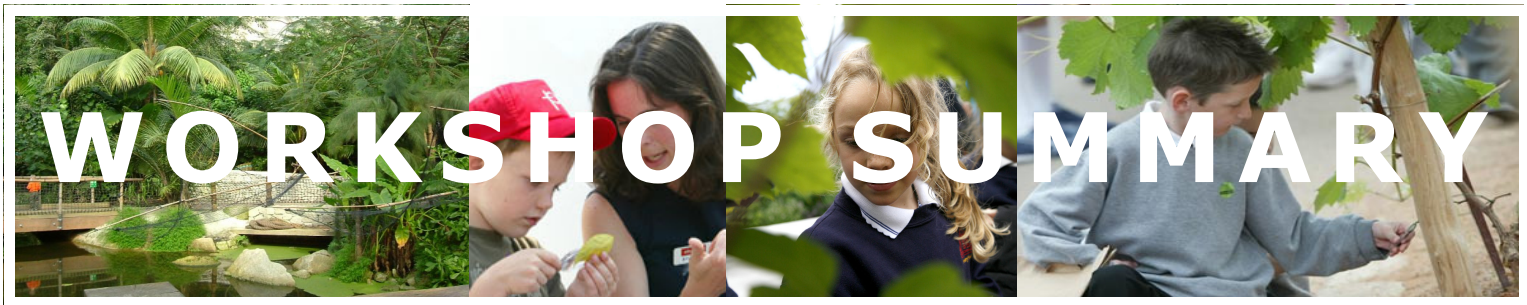

Green Machines

There's more to plants than meets the eye. Take an exciting journey through the world of plants unlocking the secrets of what makes our green friends thrive and survive.

How Long? 90 minutes

Who? Year 1-3, Science and Art

Children will:

- Understand that plants have roots, stems, leaves and flowers and that they live, grow and change.
- Identify similarities and differences between plants.
- Appreciate that plants need to be treated with care.
- Use their senses as a basis for exploration.
- Be introduced to simple plant words and concepts.
- Understand the importance of plants in their every day lives.

Curriculum Links

KS 1 Science 2.1a, 2.3a, b, c	KS 1 Art and design 1a, 2c, 4a, b, 5a, b, c

Where? The workshop starts and ends in the Core workshop room. We will visit the Outside, Mediterranean and Rainforest Biomes.

What Happens?
This workshop takes children on a sensory journey to find out how clever plants are. Children are introduced to parts of plants and their uses, using props, movement and pictures. They will gather plant facts and examples around Eden during a hands-on discovery walk. Back in the Core, with all the knowledge they've acquired, children will construct a plant from recycled material.

Practicalities

Please ensure your group is divided into workshop teams, each with an adult helper.

Our Education Team will lead your workshop session, but the participation of your staff is essential to the success of our programmes. We provide all the equipment for the workshop.

Our programmes are focussed learning experiences, they do not provide a general introduction to Eden Project, so please allow sufficient unstructured exploration time for your students during your day.

Additional information is on our website
www.edenproject.com

eden project

Green machines - Ideas to support your visit

Before you come

- Collect a variety of common plants from around the school grounds and ask children to examine their various parts (flower, stems, leaves, roots) using a hand lens. Pupils could then make labelled drawings that show the main parts of a plant.
- Walk around the school site and count how many different types of flowers and leaf shapes you can see. Children could take photos, collect a selection of leaves or make rubbings.

Follow up

- Use materials (perhaps clay, plasticine, recycled materials) to create 3D models of plants showing roots, stems, leaves, and flowers. Pupils could then stick labels using cocktail sticks onto their models and perhaps write what each part does.
- Children could use the work on plants as a stepping stone to looking at the importance of insects in pollination. They could use their plant models as part of a role play detailing the story of pollination.
- Set up an experiment growing germinated cress seeds in a variety of conditions. Provide one set of plants with water and light, one set with only water and one set with only light. The experiment should show that plants require both light and water (and nutrients from the soil) to grow successfully. This is how they make their food (photosynthesis).

Useful websites

www.bbc.co.uk/schools/scienceclips/ages/5_6/growing_plants.shtml Useful interactive activity showing that plants need water and sunlight. It also contains a 'drag and drop' activity for labelling the parts of a flower.

www.bbc.co.uk/schools/ks2bitesize/science/living_things/life_cycles/play.shtml This interactive activity could be given to more able students so they can learn about the structure of a flower.

www.ks1resources.co.uk/page11.html This website contains lots of activities which could be carried out relating to how plants grow and plant life cycles.