

LESSON PLAN

KS1 SCIENCE



Length of lesson: Two lessons, each one lasting 45 minutes.

Lesson objectives:

To identify what plants need to live and grow.

To understand that plants grow from seeds.

Lesson outcomes:

All students will understand that a plant needs light and water to grow.

Most students will be able to label the key parts of a plant.

Some students will be able to complete the worksheet unaided.

National curriculum link:

Year 1:

To identify and describe the basic structure of a variety of common flowering plants.

Year 2:

To observe and describe how seeds and bulbs grow into mature plants.

To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.

Preparation:

- Purchase broad beans, the pots and soil to plant them in
- One plant worksheet per child

Starter/warm up:

Ask pupils what types of plants they know. Ask if any pupils have ever planted seeds before. Where do beans come from? How are the beans we eat produced? Explain that beans are a type of seed.

Whole class teaching:

Show the broad bean seeds – are they alive? What will make them start growing? (water, light and warmth). Show pictures of a mature broad bean plant. What will the plant need to keep growing? (water, food from the soil and light). Explain to pupils that plants grow from seeds, but to enable them to grow they need certain things.

Ask children if they know how they get their energy? (eg from food). Then ask how they think plants get their energy. Explain that they convert sunlight into energy. Go on to explain that just like humans, plants need lots of water to be healthy and strong.

Move on to planting beans. Give each pair or table a pot, soil and beans. Explain how to plant the beans and how deep they should be planted. Ask students where they think they should put the pots to ensure the beans can grow. Ask students how often they think they should water their beans.

Refer to Farm Africa's work. In eastern Africa it is very hot and in some areas, there is very little rain which means it can be hard for seeds to grow. Explain that seeds need the right balance of sunshine and water.

Independent work:

In the second lesson, students can complete their worksheets, labelling the plant using the word bank and then completing the sentences by filling in the blanks. Lower level children may work in pairs to fill in the blanks. Higher level or extension students may not need the word bank to fill in the words.

Plenary:

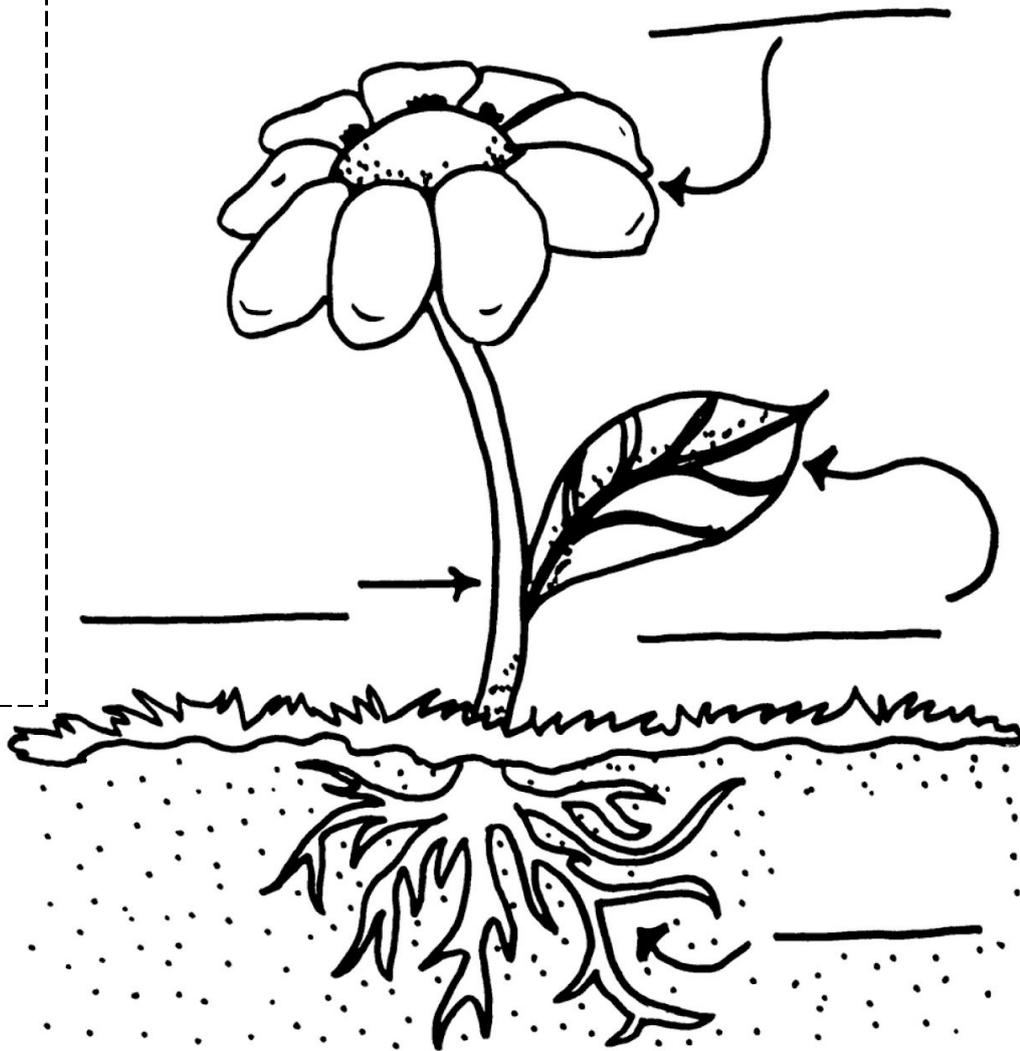
Ask students to think about how they would feel if their plants don't grow. What would it be like for farmers in Africa when their seeds don't grow? How can we help them grow the food they need? Students may wish to sell their plants at a plant sale to fundraise.

Name: Date:

Word bank

rain
soil
warm
water
sun
stem
roots
leaf
sunny
petal

Label the plant:



<http://kindergartensimplicity.blogspot.com>

Today we are going to plant broad beans. To help them grow we will need to plant the beans in _____. We will then need to put the pot and soil somewhere _____ and _____. This is so the seeds can take their energy from the ____.

We will also need to make sure the seeds are given lots of _____. If the plants were outside they would have _____. As the seeds are not outside we will need to remember to water them regularly.