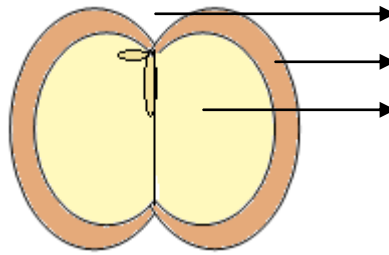


Name \_\_\_\_\_

Date \_\_\_\_\_

## Growing Things – Structure of Plants

Most growing things start from a seed. A bean is a seed which forms in a pod. If you open a bean and look very carefully, you will see the baby plant, called the **embryo**, inside. The two halves of the bean, called the **cotyledons**, provide food for the baby plant. On the outside of the bean is the tough **seed coat**. When you water the bean the seed coat will swell and the seed will burst open.



To help the baby plant to grow you will have to plant the bean and water it. If you plant it in a jar, close to the glass, you will be able to watch it grow. First, the roots will appear. They **anchor** the plant, which means that they hold it in the soil, and they collect food and water from the soil to feed the growing plant. Next, the stem and then the first two little leaves will appear.

If the plant gets enough water and sunlight it will grow into a big, healthy bean plant. Without sun the plant will soon wilt and die. You can test this by putting one of the bean plants into a dark cupboard.

Soon the plant will flower and then pods will form. Inside the pods, more beans will grow, each holding a little embryo ready to start the next crop of bean plants.

Name \_\_\_\_\_

Date \_\_\_\_\_

## Growing Things – Structure of Plants Questions

### A: The story of the bean plant

Let's see if you can remember how the bean plant grows. Here is the story again; fill in the missing words, then check yourself to see if you were correct.

A bean is a seed which forms in a \_\_\_\_\_. If you open a bean and look very carefully you will see the \_\_\_\_\_, called the \_\_\_\_\_, inside. The two halves of the bean, called the \_\_\_\_\_, provide food for the baby plant. On the outside of the bean is the tough \_\_\_\_\_. When you water the bean it will swell and the seed will burst open. First the \_\_\_\_\_ will appear. They \_\_\_\_\_ the plant. Next the \_\_\_\_\_ and then the first two little \_\_\_\_\_ will appear. Soon the plant will \_\_\_\_\_ and then \_\_\_\_\_ will form. Inside the pods more \_\_\_\_\_ will grow, each holding a little embryo ready to start the next crop of bean plants.

### B. A portrait of the bean plant

Well done! Now see if you can draw a bean plant. The diagram in the reading will help you start but don't forget to add the flowers and the pods. Label all the different parts of the plant.

Name \_\_\_\_\_

Date \_\_\_\_\_

## Growing Things – Structure of Plants Answers

### Activity A

A bean is a seed, which forms in a **pod**. If you open a bean and look very carefully, you will see the **baby plant**, called the **embryo**, inside. The two halves of the bean, called the **cotyledons**, provide food for the baby plant. On the outside of the bean is the tough **seed coat**. When you water the bean it will swell and the seed will burst open. First the **roots** will appear. They **anchor** the plant. Next the **stem** and then the first two little **leaves** will appear. Soon the plant will **flower** and then **Pods** will form. Inside the pods more **beans** will grow, each holding a little embryo ready to start the next crop of bean plants

### Activity B

The drawing should include the roots, stem, leaves, flowers and pods.