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CHAPTER 4

Parts of Plants and Humans

flower carnation

Activity 4A Colour-changing ~~Celery~~

Skills: Do practical work safely, draw a diagram to show a situation, create tables and diagrams to show observations, learn to predict the possible results of a scientific activity, analyse results to answer a scientific question, check results to see if they confirm a prediction

white flowers

Materials:

Two beakers
Water
Red food colouring
Blue food colouring
Two ~~celery~~ stems with leaves
Knife
Gloves

Method

1 Fill both beakers with water. Add a few drops of red colouring to one beaker and a few drops of blue colouring to the other beaker.

2 Cut about 3 cm off the bottom of each ~~celery~~ stalk. Some plants can cause allergic reactions. Use the gloves to handle the celery stalks.

flower

3 Place one ~~celery~~ stem into the beaker with red food colouring. Place the other celery stem into the beaker with blue food colouring.

4 Predict what will happen to the celery stems after a few days.

The flower carnation in the blue food colouring will turn blue, and those placed in the red food colouring will turn red.

white flower

5 Observe what happens to the ~~celery stems~~ for two days.

Make a drawing of the ~~celery stems~~ after two days in the box below. Colour your drawing.

6 What happened to the ~~leaves of each celery stem?~~ flower

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They took in the colour of the food colouring that they were in.

7 Do the results support your prediction?

8 What does this activity tell you about the function of stems?

The function of the stem is to transport water and nutrients to the rest of the plant.

The petals of the flower in the red food colouring will become red. The petals of the flower in the blue food colouring will become blue.)