Name _____ Date _____ Class _____

DATASHEET 24 STUDENT WORKSHEET

MAKING MODELS

Build a Flower

Scientists often make models in the laboratory to help them understand processes or structures. In this activity, you will use your creativity and your understanding of the structure of a flower to make a model from recycled materials and art supplies.

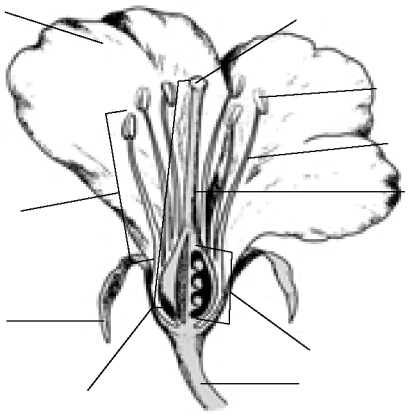
MATERIALS

- recycled items (examples: paper plates and cups, yogurt containers, wire, string, beads, buttons, cardboard, bottles)
- art materials (examples: glue, tape, scissors, colored paper, pipe cleaners, yarn)
- 3 × 5 in. card

Procedure

1. Label each of the structures on the picture of the flower below. The flower shown has both male and female parts. Not all flowers have this arrangement.
2. Examine the materials available for the construction of your flower. Decide which materials are appropriate for each flower part, and build a three-dimensional model of a flower. The flower you create should contain each of the parts listed in the table below.

Parts of a Flower
Petals
Sepals
Stem
Pistil (stigma, style, ovary)
Stamen (anther, filament)



3. On a 3 × 5 in. card, draw a diagram key for your flower model. In your key, each of the structures that are represented on your flower must be labeled.

Analysis

4. List the structures of a flower, and explain the function of each part.

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5. Explain how your model flower might attract pollinators. What modifications could you make to increase the number of pollinators?

6. Describe how self-pollination could take place in your model flower.

Going Further

Create a classroom display of all the completed models.