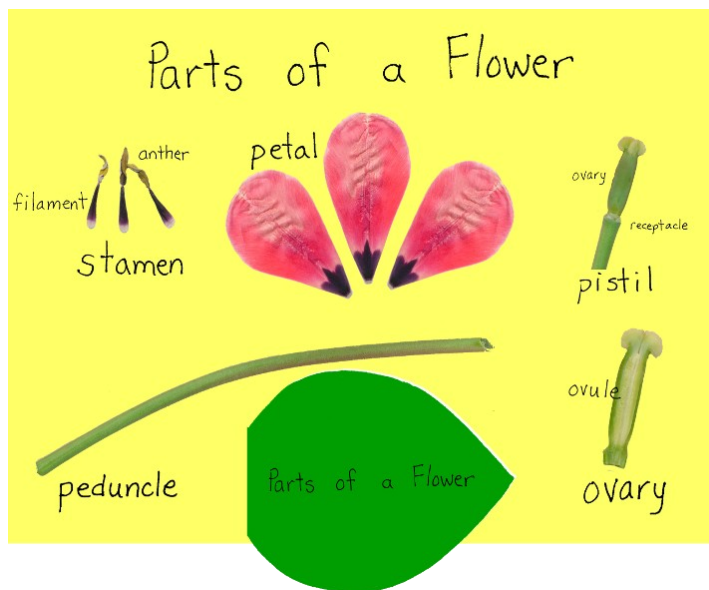




May Day Flowers

Flower Dissection

Grades 4-5

Objective

Students will use the "Science Research Cards" to help them dissect and record information about the parts of a flower. They will produce a display (see above) of their findings.

Preparation

1. Run the worksheets (pages 2-3) off on cover stock, 2 sided, 1 copy per student. (These worksheets can be reused from year to year, so cover stock works better for this.)
2. Run worksheet page 4 on copy paper, 1 copy per student. (This worksheet is consumable.)
3. Laminate and trim pages 2-3, if you wish.
4. Gather the materials listed below. Set them up for easy student access.
5. Be sure to have enough sets of "Science Research Cards" (file g2 or g3) for your students. One set per 2 students should be sufficient. You may wish to laminate them for future use.

Materials

- a flower to dissect, large enough to view the parts, 1/student
- "Parts of a Flower, Science Research Cards", 1/2 students
- magnifying lenses, if available, 1/student, or as many as you have
- 6x9 inch colored construction paper, NOT the same color as the flowers, 1/student
- 3x8.5 green construction paper, 1/student
- 3x8.5 white copy paper, 4/student
- glue

Directions

The worksheet, *Fantastic Flora*, walks the students through the dissection of a flower. First they will make a "leaf" booklet (see picture above) to record their observations. Each page of the booklet will have a drawing of a flower part on one side and a statement of the function of the part on the other. Students need to make the record booklet before they begin dissecting. The directions for the booklet are on *Fantastic Flora page 1*, and the materials to make the record booklet are on *Fantastic Flora page 3*.

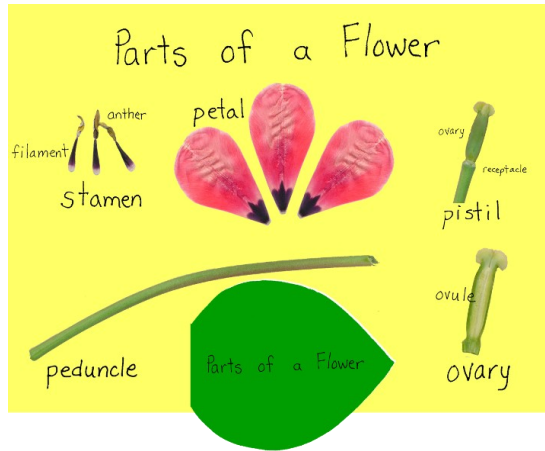
Flower dissection directions are on *Fantastic Flora page 2*. It works best to do these two steps at different times—make the record booklet, then later complete the dissection.

You can also set this up at a center, as a free time activity, if you don't want to do it with the whole class.



Fantastic Flora

Today you are going to dissect a flower, glue the parts on a piece of construction paper, and record important information about the function of each part in a booklet.



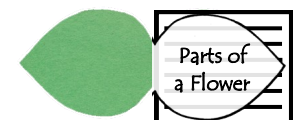
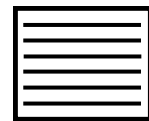
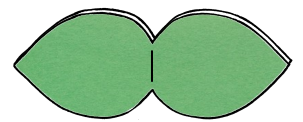
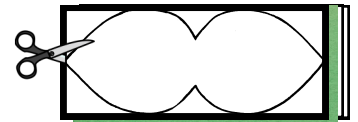
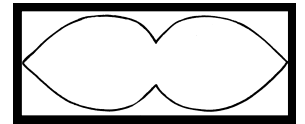
Materials:

- a flower to dissect, large enough to see the parts
- “Parts of a Flower, Science Research Cards”
- a magnifying lens, if available
- 1 piece of 6x9 inch colored construction paper, NOT the same color as the flower petals
- 1 piece of 3x8.5 green construction paper
- 4 pieces of 3x8.5 white copy paper
- glue

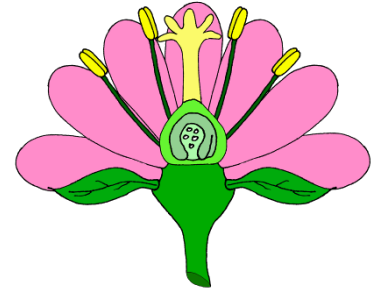
Directions:

Record Booklet

1. Cut out the rectangle that has the double leaf inside (*Fantastic Flora, Page 3*).
2. Lay the green construction paper and 1 sheet of white copy paper together. Place the leaf booklet pattern on top and cut them all at the same time. Then cut the other 3 pieces of white paper the same way.
3. Fold the green cover and 4 blank white pages together. Make sure the edges are straight. Open them up and staple them on the fold line.
4. Cut out the square that has the lines in it (*Fantastic Flora, page 3*). You will lay the lines behind the page you are writing on to help you make your writing straight, neat, and easy to read.
5. Write the title on the front of the booklet and on the first page.
6. Turn to the first set of double pages. For each flower part you will draw a picture on one side that accurately shows the flower part. Color it just the way you see it. On the other side you will slip the lines behind the page, and then write a short, concise, sentence explaining the role that part of the flower plays in making seeds.



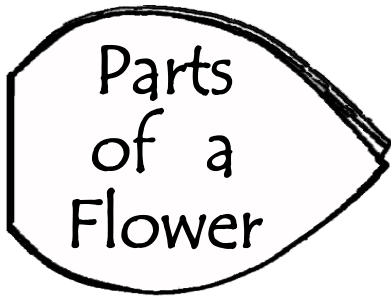
Fantastic Flora, 2



Flower Dissection

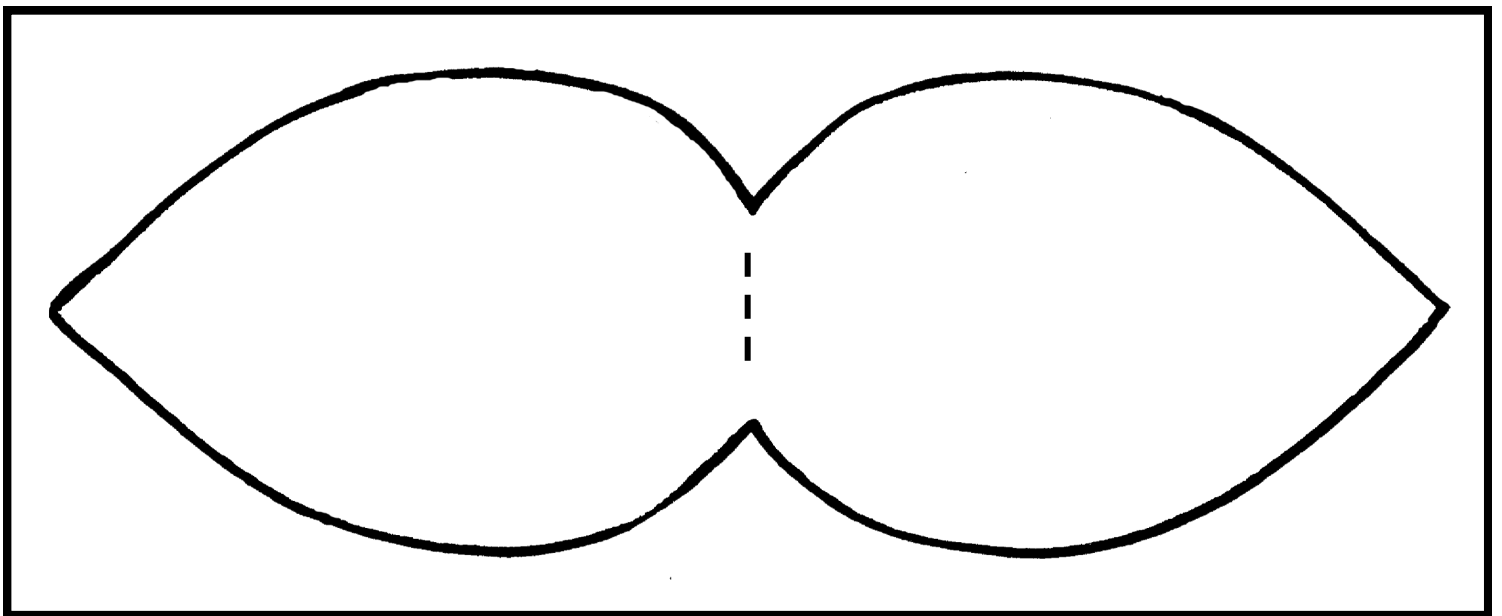
1. Read the "Flower Dissection" card.
2. Read the "Petals" card. Find the petals on your flower. Gently pull a few petals off. Notice how they attach at the receptacle. Look at them with your hand lens. Lay them out on your paper. Think about how these petals would attract insects. Find the first set of double pages in your booklet. On one side draw a picture of the petal, colored accurately, and on the other side write a sentence about the petal's role in making seeds. (Put the lines behind the writing paper. They will show through a little and help you write neatly.)
3. Read the "Stamen" card. Find the stamens. Carefully pull one off. Gently rub the anther on your finger. Do you see any yellow pollen on your finger? Identify the filament. Why is the filament shaped the way it is? Lay the stamens on your paper. Draw a picture of a stamen in your booklet, label its parts, and write a sentence describing its job.
4. Read the "Pistil" card. Gently separate the pistil from the rest of the receptacle. Look at the stigma with a hand lens. Touch it. Does it feel sticky? Look closely at the style, and the ovary. Draw a picture and label its 3 parts. Then write a sentence to explain the role of the pistil.
5. Read the "Ovary" card. With a sharp pair of scissors, carefully cut the pistil in half from top to bottom. Look for the ovules in the ovary with a hand lens. Lay both pieces of the ovary on your paper, then draw and write about what you see. Be sure to label the ovules.
6. Read the "Sepal" card. Look for the sepals (all together they are called the calyx). If you can't find them, why do you think that is? Add a picture and sentence to your booklet.
7. Read the "Receptacle and Peduncle" card. Look at your live samples with the hand lens. Draw a picture and write a sentence in your booklet. Make one page for the receptacle and another page for the peduncle.
8. Put the science cards away.
9. Spread out all your flower parts and arrange them on the 6X9 inch paper. Arrange the flower pieces. Be sure to include the booklet in the layout!
10. After you have the items arranged nicely, write labels for each flower part with a pencil. Have someone check your spelling, and then trace over the labels with a pen.
11. Finally, glue the flower parts and your booklet onto the display page, and let it dry overnight.
12. Clean up your mess.





Fantastic Flora, Page 3

Follow the directions on page 1 to make a leaf booklet. You will draw and write about each part of a flower in this booklet. Use the patterns on this page to help you make the booklet.



Cut out the rectangle. When you are ready to write in your booklet, lay the lines under the page you are going to write on. The lines will help you make your writing straight and neat.

A rectangular box with a thick black border. Inside the box, there are six horizontal lines spaced evenly apart, intended for writing. The lines are solid black.