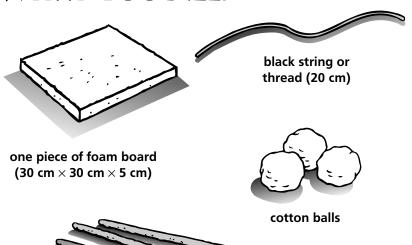
Chapter Science Investigation Name ____

Making a Model of **Your Skin**

WHAT YOU NEED

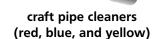


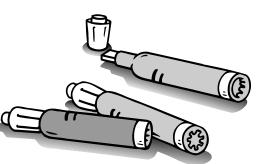
Find Out

Do this activity to model the different parts of your skin.

Process Skills

Constructing Models Communicating Inferring





markers in various colors



three toothpicks

Time

- 30 minutes the first day
- 10 minutes several times over the next two weeks



scissors



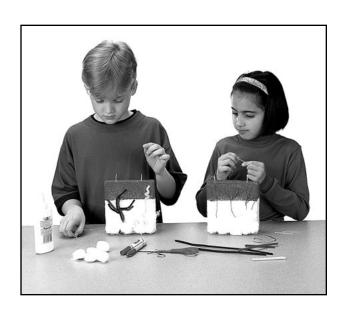
glue



- **4.** Use the black string to **represent** the nerve endings. Glue them on the inside of the other half of the foam board. Use the cotton balls to represent fat cells. Glue them to the bottom of the inside pieces of the foam board.
- **5. Draw** a sweat gland on the inside of one of the foam boards with markers.
- **6.** When the glue is dry, put the two halves together. Break the toothpicks in half and insert them in the top of your model, **representing** hair. Add any other details to your model that you want.
- 7. After your skin model is done, write five to ten questions that someone can answer by pointing to the skin model and saying its name. Example: What part of the skin will contract when the body is cold? Answer—point to blood vessels.
- **8. Ask** your classmates your questions about the skin.

WHAT TO DO

- 1. Cut the foam board in half.
- 2. Color the very top and the top third of the four sides with any color marker to represent the epidermis. The white part will represent the dermis.
- 3. Look in your textbook or other reference books for a model of the layers of the skin. Use the red, blue, and yellow craft pipe cleaners to represent blood vessels and sweat glands. Glue them on the inside of one of the halves of the foam board.



Questions about the Sk	in
Question	Answer
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

Conclusions

1. What could you add to your skin model to show what determines skin color?

2. What is the difference between the dermis and epidermis layers in your model?

New Questions

1. Why do you think desert animals have thicker skin than humans?

2. Why do you think the skin has so many functions?



Name _____





The Sense of Touch

Use the hand lens. **Look** at the skin on the back of your hand, your forearm, and some part of your leg. **Draw** what you see.

Back of Your Hand

Forearm

Leg

What do you **predict** will happen when cold water is dropped on each of these areas?

Put a drop of water on each spot. **Record** your observations in the chart.

Cold Water On	What I Saw	What My Partner Felt
Forearm		
Back of Hand		
Leg		

Activity Journal

Lesson 1 • Properties of Skin

Name

Conclusions



(1) Compare your predictions with your observations.

- How did you **react** to each drop of water on your skin?
- Did the water react the same way each time? Explain.

Asking New Questions

Why did different parts of your skin react differently?

Predict how the skin on the top of your foot might respond to a drop of cold water. What about the skin on the sole of your foot? Test your prediction.

Activity Journal

Lesson 2 • Skin Controls Body Temperature

Name _____



Facial Wrinkles

Use your mirror. Look at the lines in the skin on your face as you smile and frown. **Draw** what you see.

Smiling Frowning

Predict what will happen when you try to fold 20 sheets of paper.

Activity Journal

Lesson 2 • Skin Controls Body Temperature

Name

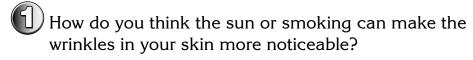
Conclusions



(1) Compare your **predictions** with your **observations.**

- Which paper was easier to fold, the single sheet of paper, the stack of 10, or the stack of 20? **Compare** what the folds looked like on each of these faces.
- How can the sheets of paper be **compared** to the layers of your skin?

Asking New Questions



How does your face wrinkle when you are crying? Can you fold your paper to demonstrate this?