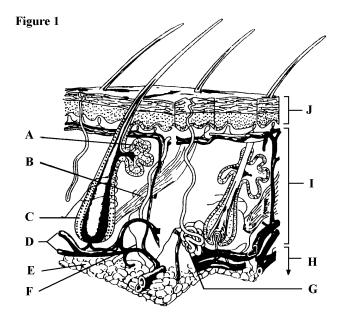
Worksheet

Describing Skin and Bone

Introduction

Being able to read illustrations is an important skill, not only in biology, but in other areas of study as well. In this activity you will interpret illustrations to identity the structures and functions of skin and bones. Figure 1 shows a cross-section of skin.



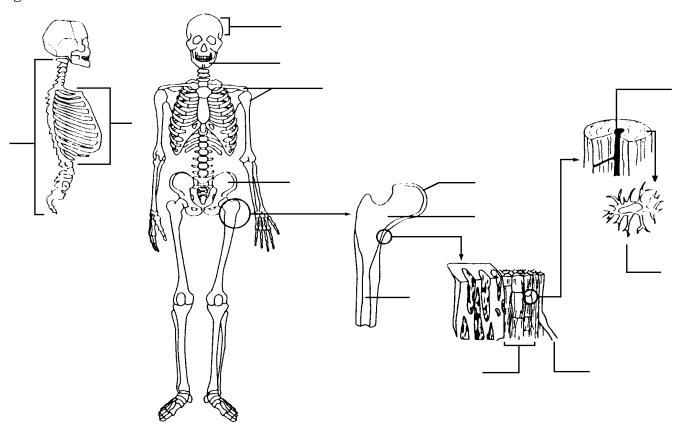
Procedure

or relationship with the sk	cin		
Blood vessels	-	 	
Sebaceous gland	1 -	 	
Epidermis	-	 	
Muscle	-	 	
Hair follicle	-	 	
Hypodermis	-	 	
Nerve	-	 	
Fat	-	 	
Dermis	-	 	
Sweat gland			

1. Match the letter of each structure in the diagram above with the correct name in the following list and describe its purpose

2. What is the most important function of the integumentary system? How does it perform this function?

Figure 2



- 3. Figure 2 is a diagram of the human skeleton including a magnified section of a typical long bone. Match each of the following functions of the skeletal system parts with the corresponding structure in Figure 2. Write the number of each function on one of the lines provided in the figures.
 - 1. Protects the lungs, heart, and other chest organs
 - 2. Protects the pelvic organs and anchors the legs
 - 3. Protects the spinal cord
 - 4. Protects the brain
 - 5. Shapes the face; allows chewing
 - 6. Provides support; anchors the arms
 - 7. Carries food and oxygen to living cells in the bone

- 8. Makes bones hard
- 9. Reduces friction between bones that touch each other
- 10. Provides some support; a storage area for marrow
- 11. Forms blood cells
- 12. Repairs and nourishes the bone
- 13. Living part of bone that constantly replaces bone tissue
- 4. Describe four important functions of the skeletal system.
 - a.
 - b.
 - c.
 - d.