## **Critical Thinking Skills**

## Human Body

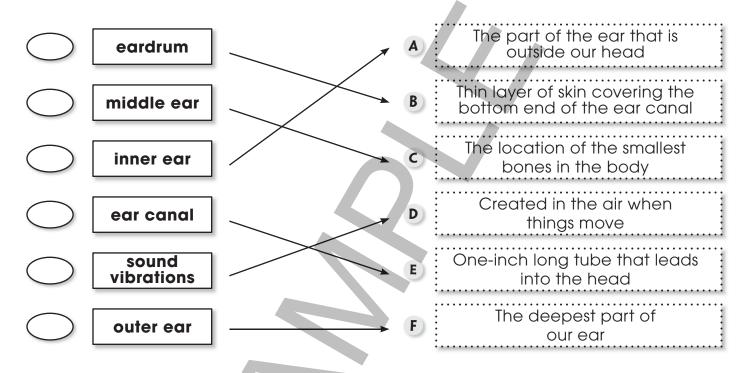
Cells, Skeletal System & Muscular System Senses, Nervous System & Respiratory System Circulatory, Digestive, Excretory & Reproductive Systems Human Body - Big Book

| $\square$                |  | Reading Comprehension |           |   |   |           |   |           |   |                        |
|--------------------------|--|-----------------------|-----------|---|---|-----------|---|-----------|---|------------------------|
|                          | Skills For<br>Critical Thinking  | Section 1             | Section 2 | Section 3                                 | Section 4                               | Section 5 | Section 6                                 | Section 7 | Section 8                               | Hands-on<br>Activities |
| LEVEL 1<br>Knowledge     | <ul> <li>List Details/Facts</li> <li>Recall Information</li> <li>Match Vocabulary to Definitions</li> <li>Define Vocabulary</li> <li>Label Diagrams</li> <li>Recognize Validity (T/F)</li> </ul> | >>> >                 | ~~~~      | >>> >>                                    | >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | 55555     | >>>> >>                                   | 555 5     | >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> | ✓ ✓<br>✓               |
| LEVEL 2<br>Comprehension | <ul> <li>Demonstrate Understanding</li> <li>Explain Scientific Causation</li> <li>Describe</li> <li>Classify into Scientific Groups</li> </ul>   | > >>                  | > >>      | >>>>                                      | >>>>                                    | 5         | 555                                       | 555       | >>>>                                    | > >                    |
| LEVEL 3<br>Application   | <ul> <li>Application to Own Life</li> <li>Organize and Classify Facts</li> </ul>   | 55                    | 1         | 55  | >>                                      | 1         | 1   | 1         |   | 1                      |
| LEVEL 4<br>Analysis      | <ul> <li>Make Inferences</li> <li>Draw Conclusions Based on<br/>Facts Provided</li> <li>Classify Based on Facts Researched</li> </ul>  | 1                     | 55        | <b>&gt;</b><br><b>&gt;</b><br><b>&gt;</b> | <b>&gt; &gt; &gt; &gt;</b>              | 1<br>1    | <b>&gt;</b><br><b>&gt;</b><br><b>&gt;</b> | 1         | \$<br>\$<br>\$                          | \<br>\<br>\            |
| LEVEL 5<br>Synthesis     | <ul> <li>Compile Research Information</li> <li>Design and Application</li> <li>Create and Construct</li> <li>Ask questions</li> <li>Defend Selections and Reasoning</li> </ul>                   | > >                   | > >       | > >                                       | > >                                     | ۲<br>۲    | <b>&gt; &gt; &gt;</b>                     | ~         | > >                                     | >>>>>                  |
| LEVEL 6<br>Evaluation    | <ul> <li>State and Defend an Opinion</li> <li>Defend Selections and Reasoning</li> </ul>   |                       |           |   | 1                                       |           | 1   | 5         |   |                        |

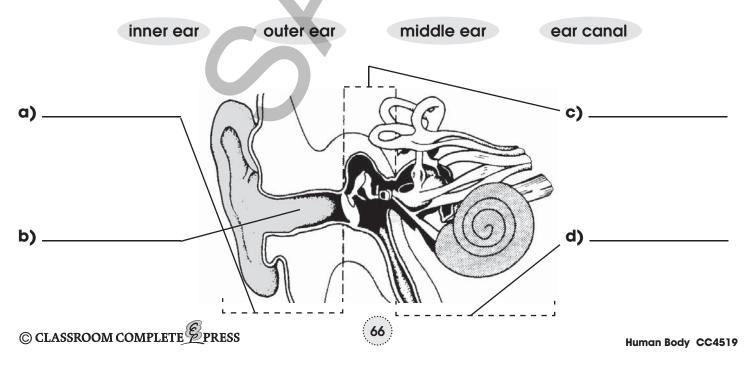
Based on Bloom's Taxonomy

Before You Read NAME: The Sense of Hearing

You be the teacher! Someone has matched the word on the left to the definition on the right. Are they correct? If **yes**, mark it correct with a check mark in the box beside each. If **no**, write an X in the box and correct the work by drawing an arrow to the correct definition. You may use a dictionary to help.



2. Label the three main parts of the ear. Use the words in the list.



## The Sense of Hearing

🖤 Reading Passage

e hear sound when movement - like a door slamming - stirs the air around us and makes **vibrations** in the air. These vibrations move into our ears. They travel inside our head and are turned into **electrical signals**. These signals are sent to our brain, and a message telling us what the sound means is made. Sound waves travel very fast. This means we understand what we hear as soon as we hear it.



The parts of the ear are divided into three main areas.

| Ear Part                        | Part of Ear   | What It Does (Function)   |
|---------------------------------|---|---|
| outer ear                       | <ul> <li>the part of the ear that we can see on either the side of the head</li> <li>shaped like a big funnel</li> <li>also called the auricle</li> </ul> | <ul> <li>job is to move as much sound as possible into<br/>our head</li> <li>the "funnel" traps sound so that it goes into the<br/>ear</li> </ul>             |
| ear canal                       | <ul> <li>a tube about one inch long that<br/>leads into the skull</li> </ul>  | <ul> <li>the sound travels down the ear canal to the<br/>eardrum</li> </ul>   |
| eardrum                         | <ul><li> at the bottom of the ear canal</li><li> the beginning of <b>the middle ear</b></li></ul>   | <ul> <li>job is to increase the power of the sound, and<br/>move it deep into our head</li> <li>vibrates like the top of a drum when sound hits it</li> </ul> |
| stirrup,<br>hammer<br>and anvil | <ul> <li>all are behind the eardrum</li> <li>three of the smallest bones in the body, each named for the shape of the bone</li> </ul>                     | <ul> <li>these bones vibrate when sound passes by</li> </ul>  |
| inner ear                       | • is deep inside our skull  | <ul> <li>job is to send the sound vibrations to the brain</li> </ul>  |
| cochlea                         | <ul><li> part of the inner ear</li><li> looks like a snail shell</li></ul>  | <ul> <li>the sound travels into the cochlea and over the<br/>nerve cells</li> </ul>   |
| nerve cells                     | <ul><li>located inside the cochlea</li><li>there are many of these tiny cells</li></ul>   | <ul> <li>sound is turned into electrical signals</li> <li>these signals are sent along the nerve cells to the brain</li> </ul>                                |



Why are sound vibrations important for hearing?





NAME: \_\_\_\_\_

## The Sense of Hearing

1. Use the terms in the list to answer each question. *Four* terms will be left over.

| very slow<br>electrical signals<br>optic nerve | very fast<br>inner ear     | cochlea<br>middle ear   | ear canal<br>optic tube |  |  |  |
|--|----------------------------|---|-------------------------|--|--|--|
|  | <b>a)</b> Where is the     | eardrum found?  |                         |  |  |  |
|  | <b>b)</b> Deep in the      | ) Deep in the ear, what are sound vibrations turned into?         |                         |  |  |  |
|  | _ c) Sending sign the ear? | Sending signals to the brain is the job of which part of the ear? |                         |  |  |  |
|  | _ d) How fast or s         | low does sound travel?  |                         |  |  |  |
|  | <b>e)</b> What is the r    | name of the tube that le  | eads into our ear?      |  |  |  |

2. Fill in each blank with a word from the list. One word will be left over.

