



- |   |   |
|---|---|
| A <sub>1</sub> , A <sub>2</sub> , A <sub>3</sub> — cells on the surface & lining organs | D <sub>5</sub> , D <sub>6</sub> — tendon cells                    |
| B <sub>1</sub> — muscle cells   | D <sub>7</sub> — ligament cells                                   |
| C <sub>1</sub> — nerve cells  | D <sub>8</sub> , D <sub>9</sub> — fat cells                       |
| D <sub>1</sub> , D <sub>2</sub> — cartilage cells                                       | D <sub>10</sub> , D <sub>11</sub> , D <sub>12</sub> — blood cells |
| D <sub>3</sub> , D <sub>4</sub> — bone cells  |   |

# Structure and Function in Living Systems

Name: \_\_\_\_\_

## Tissue Types

Period: \_\_\_\_\_

Follow the directions below to color-code the diagrams and to answer the questions. You can use Chapter 15, Section 1 of your textbook to help you. Use colored pencils, and check off each box  as you finish that part of the instructions.

The diagram shows where different types of cells work together in different parts of your body. Because different parts of your body do different things, the cells must be specialized to do particular jobs. Reread p.467 and fill in the sentences below.

Cells that work together are called a \_\_\_\_\_.

Cells that have specific structures to do certain jobs are \_\_\_\_\_ cells.

Color the outside of the box A orange . Color the two arrows from box A orange . The job of this kind of tissue is to protect anything that is underneath it. It is found covering the outside of your body (it is your skin), as well as lining inside parts of your body, like your throat.

A refers to \_\_\_\_\_ tissue.

Color the outside of the box B purple . Color the arrow from box B purple . The job of this kind of tissue is to contract (get shorter). It is found in all of your muscles (like those in your arm) that help you to move around.

B refers to \_\_\_\_\_ tissue.

Color the outside of the box C yellow . Color the arrow from box C yellow . The job of this kind of tissue is to send electrical signals throughout your body. It is found in your nerves, brain, and sense organs (like your eyes).

C refers to \_\_\_\_\_ tissue.

Color the outside of all of the boxes with a D brown . Color the arrows from any of the boxes with a D brown . The job of this kind of tissue is to support and connect parts of your body together. It is found in places like cartilage, bone, tendons, ligaments, fat, and blood.

D refers to \_\_\_\_\_ tissue.

*Next to each body part, write down the type of tissue that forms it.*

blood \_\_\_\_\_

muscle \_\_\_\_\_

bone \_\_\_\_\_

nerves \_\_\_\_\_

brain \_\_\_\_\_

sense organs \_\_\_\_\_

cartilage \_\_\_\_\_

skin \_\_\_\_\_

eyes \_\_\_\_\_

tendons \_\_\_\_\_

fat \_\_\_\_\_

throat lining \_\_\_\_\_

ligaments \_\_\_\_\_