

Name: _____

Human Body Systems Interactions

1. Below are some systems involved in **nutrient absorption** in the body. Write the letter of each organ system's purpose or function next to its name.

Work Together for Nutrient Absorption	
Circulatory System: _____	A. Detects and responds to changes in the environment.
Endocrine System: _____	B. Creates and releases hormones to send signals to cells in the body.
Muscular system: _____	C. Allows for movement of the organism
Digestive System: _____	D. Breaks down food to supply energy and nutrients to the body.
Nervous System: _____	E. Transports nutrients, gases and waste in the body.

2. Below are some systems involved in **reproduction** in the body. Write the letter that correctly identifies the system with its organs or tissues

Work Together for Reproduction	
Endocrine System _____	A. Arteries, veins, capillaries, heart
Reproductive System _____	B. Pituitary gland, ovaries
Circulatory System _____	C. Ovaries, testes
Muscular System _____	D. Cardiac muscle, smooth muscle

3. Complete the table below as it describes how the body defends itself from injury.

When you cut yourself . . .	Organ, tissue or cells involved	Main Body System
1. First, the skin is cut by a sharp object.	Organ: <u>Skin (epidermis & dermis)</u>	_____ System
2. Second, the immune cells rush to the damage site and release chemicals.	Cells: _____	_____ System
3. Third, chemicals cause blood vessels to enlarge and bring more blood to the site.	Organ or tissue: _____	_____ System
4. Fourth, an array of white blood cells, made in the bone marrow, arrive at the site to fight infection.	Organs: _____	_____ System