

Interaction Quiz Primary 6

1. Use the words below to complete the table about the senses:

Touch cells inside the nostrils in the dermis optic tongue
reflected light olfactory taste in the cochlea nose
In the retina gustatory sight chemicals in food smell
auditory sound waves ear heat, pain, pressure, texture

| Sense | Organ | Receptor | Nerve | Stimulus/stimuli |
|---------|-------|-------------------------|-------------------|----------------------|
| | Eye | | | |
| | | Cells in the taste buds | | |
| Hearing | | | | Chemicals in the air |
| | | | Many in the P.N.S | |

2. Complete the sentences below by choosing a word.

- The smallest part of the nervous system is a nerve cell called a ____.
- ____ carry signals from the central nervous system to the effectors.
- The ____ of neurons are often the receptors from our sense organs.
- ____ carry signals from the receptors to the spinal cord and brain.
- Once the impulse has entered the neuron through the ____ it travels to other neurons through the ____.
- In a ____ the impulses reach the spinal cord before the brain.

3. Can you order the stimulus response? Type numbers 1-6.

- a) The brain processes the message's information in the cerebrum.
- b) The stimulus is changed into an electrical message and passed along the peripheral nervous system.
- c) A stimulus is detected by receptors in one of our sense organs.
- d) As the control centre, the brain sends out a reaction along motor neurons to an effector.
- e) A response is carried out by an effector.
- f) Sensory neurons pass the impulse onto the central nervous system.

4. Choose whether the sentences describe *voluntary* or *involuntary* actions. Then choose whether they are controlled by *skeletal*, *smooth* or *cardiac* muscle.

- a) Moving our quadriceps muscle to bend our leg.
- b) Our heart beating.
- c) Quickly moving your hand from a hot flame.
- d) Digesting your food.
- e) Swimming in the sea.
- f) Singing along to your favourite song.
- g) Picking up your science book to study.
- h) Breathing in and out.

5. Decide if the following sentences about joints are true or false.

- a) There are four different types of joints.
- b) Flexible joints give us full movement like in our knees.
- c) Fixed joints move a little, like in our spine.
- d) A joint is where no bones are connected.

- e) Joints allow us to bend our body.
- f) Semi-flexible joints do not move, like in our skull.
- g) People can do gymnastics because of joints.

6. Choose which part of the brain is responsible for each set of actions.

- a) The controls thoughts, memory, feelings and decision-making.
- b) The controls involuntary actions and sleeping.
- c) The controls movement, balance and coordination.