Thank you for using our tools to help your students visualize the molecular world! The lesson/activity guide for the Neuron Modeling Set© is intended to help you consider different ways you may use these materials. We encourage you to modify these lessons and activities to meet the learning objectives of your specific students. Enjoy!

**Objectives**

Use the model pieces in the set to:

- Construct a model and identify parts of a multipolar neuron.

- Distinguish between four different types of neurons (multipolar, bipolar, unipolar and interneurons).

- Determine the location and function of these four different types of neurons in the human body.

- Describe differences between two types of neuroglia (in this case, cells that compose the myelin sheath) in the central and peripheral nervous systems.

- Utilize the neuron models to construct simple and complex neural pathways.

- Examine and predict the overall effect on neuronal firing at excitatory and inhibitory synapses in the neural pathways constructed.

**Materials Needed**