

Topic/Objectives: 9-1 Somatic Senses; (1) Identify and describe the five general types of sensory receptors, (2) Explain sensations and how sensory adaptation occurs, (3) Describe the receptors associated with the senses of touch, pressure, temperature, and pain, (4) Explain how pain impulses are regulated.	Name:
	Date:
	Period:

Essential Question: How does our somatic sense help us maintain homeostasis?

Questions:	Notes: Sensory receptors detect changes in the _____ and stimulate neurons to send nerve impulses to the brain. A _____ is formed based on the sensory input. Each receptor is more sensitive to a specific kind of environmental change but is less sensitive to others. Types of Receptors <ul style="list-style-type: none"> ◦ Five general types of receptors are recognized. <ul style="list-style-type: none"> ◦ Receptors sensitive to changes in chemical concentration are called _____. ◦ _____ receptors detect tissue damage. ◦ _____ respond to temperature differences. ◦ _____ respond to changes in pressure or movement. ◦ _____ in the eyes respond to light energy.
	Sensations <ul style="list-style-type: none"> ◦ _____ are feelings that occur when the brain interprets sensory impulses. ◦ At the same time the sensation is being formed, the brain uses _____ to send the sensation back to its point of origin so the person can pinpoint the area of stimulation. Sensory Adaptation <ul style="list-style-type: none"> ◦ During sensory _____, sensory impulses are sent at decreasing rates until receptors fail to send impulses unless there is a change in strength of the stimulus.
Receptors associated with the skin, muscles, joints, and viscera make up the somatic senses. Touch and Pressure Senses <ul style="list-style-type: none"> ◦ Three types of receptors detect touch and pressure. ◦ _____ of sensory nerve fibers in the epithelial tissues are associated with touch and pressure. ◦ _____ are flattened connective tissue sheaths surrounding two or more nerve fibers and are abundant in hairless areas that are very sensitive to touch, like the lips. 	

