

SECTION 6: A RECEPTOR MAP

LAB

INTRODUCTION

The receptors in your skin can sense temperature, pressure, and many other things. The different kinds of receptors are not distributed even only all over your body. Some areas of your skin have temperature receptors closer together and other areas have pressure receptors closer together. All the receptors that come into contact with the stimulus send information to the brain. The brain interprets the information as cold, hot, a tickle, wetness or pain. For example, in some places on your skin, you can feel a definite sensation when only a very small area of your skin is touched and in other places you may not feel the sensation at all.

ASSESSMENT ANCHORS ADDRESSED

- S4.A.2.1** Apply skills necessary to conduct an experiment or design a solution to solve a problem.
- S4.C.1.1** Describe observable physical properties of matter.
- S4.A.3.3** Identify and make observations about patterns that regularly occur and reoccur in nature.

PURPOSE

In this activity, you will test for temperature receptors and pressure receptors in two places on your body. You will try to determine whether these receptors are closer together on the back of your hand or on the inside of your wrist.

MATERIALS

Blindfold Plastic container
Ice cubes* Journal page for Activity 6
Paper clip* Ball point pen- fine tip*
Dull pencil* Metric ruler*
*Teacher provides items marked with **