SECTION 6: AIR PRESSURE

LAB

INTRODUCTION

Air pressure affects the weather. High pressure usually brings clear weather and low pressure brings strong winds and poor weather. Changing air pressure also brings winds. When a high pressure front meets a low pressure front, it pushes it out of the way, bringing fair weather. Barometers measure changes in air pressure. Increasing pressure means fairer weather. A sudden drop in pressure indicates a storm or rain.

ASSESSMENT ANCHORS ADDRESSED

S4.A.2.2 Identify appropriate instruments for a specific task and describe the information the instrument can provide.

S4.C.1.1 Describe observable physical properties of matter.

S4.C.3.1 Identify and describe different types of force and motion and the effect of the interaction between force and motion.

S4.A.3.3 Identify and make observations about patterns that regularly occur and reoccur in nature.

S4.D.1.2 Identify the types and uses of Earth’s resources.

PURPOSE

Students will observe the strength in air pressure by conducting a simple demonstration with a 2 liter soda bottle.

MATERIALS

For the class:
1 2-liter soda bottle*
Hot water*
Ice water*
2 buckets ice*
*Teacher provides items marked with *

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