**SECTION 5: OBSERVING THE MAGNETIC FIELDS WITH IRON FILINGS**

## LAB

**INTRODUCTION**

Iron filings can be used to see the magnetic field of various magnets.

# ASSESSMENT ANCHORS ADDRESSED

**S4.A.2.1** Apply skills necessary to conduct an experiment or design a solution to solve a problem.

**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, or the effect of the interaction between force and motion.

# PURPOSE

Students will study the magnetic field of each magnet by studying patterns in iron filings. Students can measure how far the magnetic field extends and compare each magnets force.

# MATERIALS

## For Each Pair of Students

3 magnets ( alnico, ring, and ferrite) iron filings

petri dish plastic tray

*Teacher provides items marked with \**

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