

Grade 5—Reflection and Refraction
RM 3: Go Fish!

Materials:

- A rectangular plastic container (at least 30cm x 20cm)
- Half-meter stick
- One 3/4-inch binder clip
- One bamboo skewer with pointed end cut off
- Water
- Safety goggles

Procedure:

1. Put on your safety goggles.
2. Mark 2cm from the top of the plastic container using the half-meter stick.
3. Fill the plastic container with water up to the mark.
4. Fold two metal hands on the binder clip so they are touching.
5. Place the binder clip under the water at one end of the rectangular container so that the flat part of the clip is resting on the bottom and the metal hands are pointed upward.
6. Hold the skewer so one end is resting on the edge of the plastic container opposite of the binder clip.
7. Move your head so your face is behind the other end of the skewer and you are looking down the edge of the skewer and into the water.
8. Aim the skewer at the binder clip.
9. Push the skewer to strike the binder clip through the metal hands.
10. Think about the following questions:
 - a. Was it easy or difficult to strike the hands of the binder clip on the first try?
 - b. What is happening that makes it difficult to hit the hands of the binder clip?