

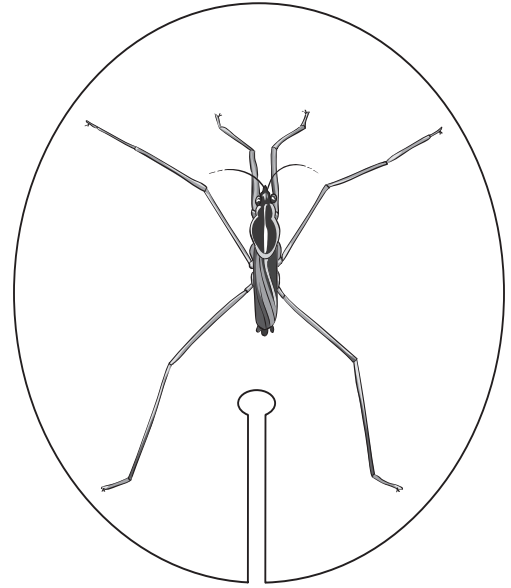
HOME/SCHOOL CONNECTION

Investigation 1: Water Observations

Try these three activities at home. Make sure you work in a place where it's OK to spill a little water. Record your observations on another sheet of paper.

You will need

- 1 Scissors
- 1 Basin of water
- 1 Toothpick
- Dishwashing liquid
- 1 Glass of water
- Paper clips, regular size
- 1 Strawberry basket



Water strider

1. Cut out the water strider along the line. Also cut out the notch at the bottom.
2. Float the paper water strider in 6–10 cm of water in a sink or plastic basin.
3. Use a toothpick to place a tiny amount of dishwashing liquid in the top of the notch near the strider's abdomen. How can you explain what happened?

Paper clips in full glass of water

1. Fill a small drinking glass with water up to the brim.
2. Carefully add paper clips, one at a time, to the glass of water.
3. Observe the glass from the side. What shape is the water's surface?
4. How many paper clips can you add before water spills over the edge?
5. Why do you think you could add paper clips to the glass when it was already filled to the brim?

Berry basket

1. Next time your family has strawberries, save the plastic basket they came in. (A substitute for a basket is to cut a small piece of plastic from a recycled container.)
2. Float the berry basket, like a boat, in 10–15 cm of water in a sink or plastic basin. Observe the shape of the water in the squares at the bottom of the berry basket.
3. Add one drop of dishwashing liquid to the water in the middle of the berry basket. What do you observe? Why did it happen?