

## ***Weather Vane Materials***

Cardboard (or plastic for weatherproofing for outside use)

Paper and pencil

Scissors

Plastic drinking straw

Clear tape

Plastic soft drink bottle

Shallow metal pan

Glue

Felt marking pen

Rocks for weight

Compass



## ***Procedure for Constructing a Weather Vane***

With scissors, carefully cut out of the cardboard or plastic an arrow with a tab that is slightly narrower than the inside diameter of the neck of the bottle (2 cm (0.75 in.)). Tape one end of the straw to the tab. Bend the tab slightly so that the arrow turns more easily.

Remove the rocks from the center of the pan and glue the bottom of the soft drink bottle to the middle of the pan and allow the glue to dry.

After the glue has dried, insert the other end of the straw into the neck of the bottle and place the rocks in the pan for weight (Figure 15-2).

Use the compass to find north, and then mark the four sides of the pan N, E, S, and W with the felt pen.

Test the functioning of the weather vane by placing it outside and observing the results to determine how

well it functions. Test it on a windy day and again when there is just a slight breeze.



**Figure 15-2. Completed weather vane.**