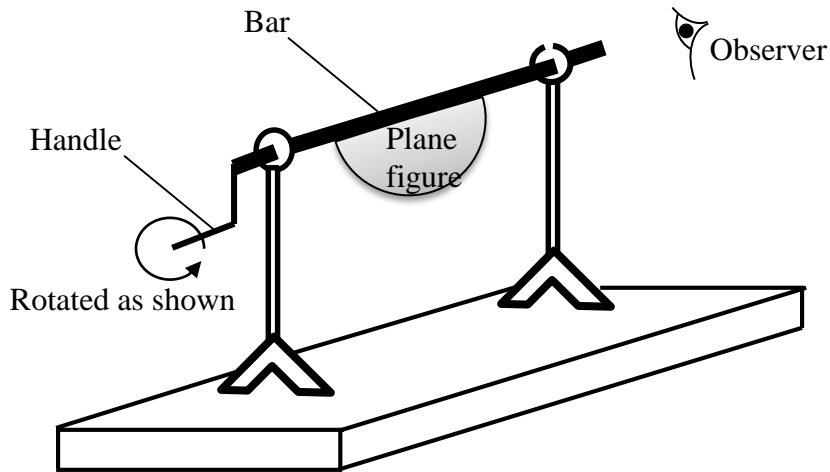


1. Cut out a plane figure, for instance, a semicircle and mount it on the bar using a tape as shown below.



2. Rotate the handle as fast as you could as well as the setup can allow. Let other students observe from the other end as indicated.

3. Identify the image observed as the rotations are made.

4. Repeat the procedure 1 – 3 for a quarter circle and a cylinder and record the image that you observe.

5. Make a conclusion about the resultant images with respect to the plane figures rotated.

In this activity, students will try to visualize 3D images when rotated. The diagram below shows a setup, which can be prepared by the instructor or other means then provided to students. Students will working groups of at least six or more depending on the availability of the setup. They will require a manila paper, a tape, and a pair of scissors or scalpel.

## Answer Keys

### Day 158:

1 - 2. No response

3. Sphere

4. A hemisphere and a cylinder

5. When a semicircle is rotated about a line that the diameter is part of, a sphere is observed

When a quarter circle is rotated about a line that the diameter is part of, a hemisphere is observed

When a rectangle is rotated about a line that the diameter is part of, a cylinder is observed