

# PRACTICAL ACTIVITY

# CREATING YOUR OWN LENSES

## MATERIALS:

- Glass cup / Clear water bottle
- Paper and colouring pencils
- Ziploc Bag

This practical experiment will show you how rotating an object changes its shape.



## STEPS

Take the time to create a drawing or design of the James Webb Space telescope, so you can learn about Each part of it as you draw it.

Fill up your glass cup or your clear water bottle with water. Ensure you have a flat, round surface.

Along with that, fill some water into your ziploc bag, and twist it around to create a small ball of water.

## WHAT TO DO:

Place your drawing behind the cup of water, and move it through different distances. At the right distance, it should appear inverted horizontally! Your ziploc bag can also be held over your drawing to zoom into a part.

Bonus: Try drawing diagrams of the path the light takes through your lenses.

