Curved mirror

Material needed:

Concave and Convex mirror (3D printed)

Ripple tank

Experimental procedure

1. Place convex and concave mirror in ripple tank and use plane wave source.
2. Observe reflected wave and record the focal point of concave mirror.
3. Repeat experiment using mirror with different diameter.

Discussion

1. State the difference between wave reflected from convex and concave mirror.
2. State the relation between the diameter and focal point of concave mirror.
3. How does the focal point change with different diameter?
4. Can we use 3D print method the create lens for ripple tank?