

# JR-ENGINEERS

# SCREW

**Make your own Archimedes screw with this fun project!**

## INSTRUCTIONS

**STEP 1:** Cut off both ends of your water bottle and cut a small hole in the neck.

**STEP 2:** Roll a piece of paper into a tube.

**STEP 3:** Print and cut out your circles. Use them as templates to cut the card stock. Make sure to cut through the line and center circles too.

**STEP 4:** Tape each circle around your rolled paper. Attach the end of each circle to the next one, and tape each circle to the center paper roll as well.

**STEP 5:** Place your screw inside the bottle and make sure it turns.

**STEP 6:** Place the screw into a bowl of cereal, making sure the cereal can enter through the hole you cut in the neck of the bottle.

**STEP 7:** Now twist your screw and watch what happens!

## ARCHIMEDES SCREW

An Archimedes' screw, also known as the water screw, screw pump or Egyptian screw, is a machine used for moving a substance from a lower area up to a higher area. The substance is pumped by turning a screw-shaped surface inside a pipe. It is named after Greek philosopher Archimedes who first described it around 234 BC.

## SUPPLIES

Circle template  
Water bottle  
Scissors  
Card stock  
Paper  
Tape  
Cereal or beans  
(to lift)



