



# Solar Drinking Water

## #280

### AGE GROUP



3-5 years



6-12 years

### HOW DO I SET UP & PLAY?

**Curiosity Spark - Can we purify water without machines? How do astronauts get clean water in space?**

- You will need a sunny spot for this activity so it's best to set up outside.
- Pour a few centimetres of water into your plastic bucket
- Place your clean glass or jar in the center of your bucket but make sure not to get any of the 'dirty' water inside it.
- Cover the bucket with a layer of clingwrap (plastic wrap). It needs to form a tight seal so secure with duct tape firmly.
- Place rock carefully on top of the wrap over the glass or jar.
- Let the solar still sit in full sun for a few hours (do it in the morning so you can investigate during afternoon outside time).
- The water will evaporate and begin collecting underneath the wrap.
- The water droplets run into the centre then fall into the jar because of where you placed the weight (rock).
- You now have clean water to drink (not much but it's still fascinating)!

### EXTENDING LEARNING SPARKS

- Use salty water inside and let children taste then compare to the water that gets collected inside the jar. It doesn't taste salty!
- Research and watch videos of astronauts and how they purify water on the space station.

### WHAT MATERIALS DO I NEED?

- Clean tall glass or jar
- Duct Tape
- Plastic Bucket
- Gladwrap
- Small rock to use as a weight
- Water - add a little bit of dirt & mix together as we want to see how it changes to 'clean water'



Building My  
Language &  
Literacy Skills



Challenging my fine  
motor muscles