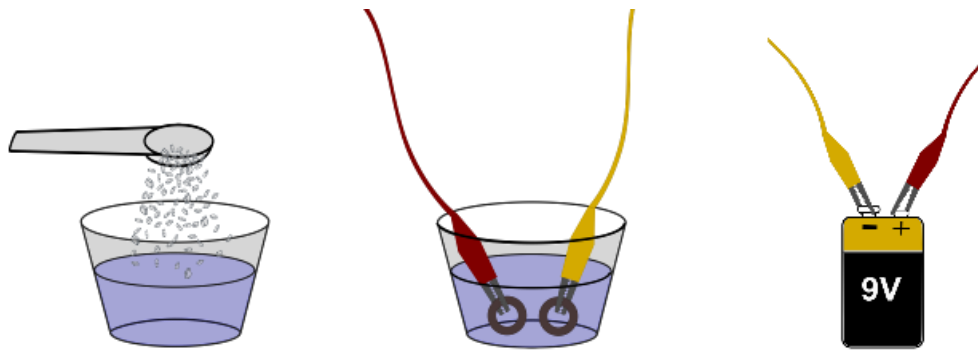


Produce O₂ from ice

Water ice has been harvested from a crater at the south pole of the moon. The ice material must be melted to use in a process called electrolysis to produce oxygen for the base.

The ice material is on average -260°f, too cold to touch with hands. Grabbers need to be used to handle the ice.

Electrolysis is the process of passing electricity through water (H₂O) separating the Hydrogen (H) and Oxygen (O) molecules.



1. Use the grabbers to pick up the blue ice material from the chest and melt into water.
2. Mix in one scoop of salt into the water.
3. Clip one washer to one end of each wire. Place the washers into the salt water.
4. Connect the other end of the wires to the positive and negative ends of the battery.
5. Observe the washers for oxygen and hydrogen bubbles to form.

Objective: Gather ice material to melt and use in electrolysis to produce O₂ for the base.