



PROPERTIES OF WATER PROJECT

Water is an amazing substance; many scientific phenomena are connected to this essential substance. In groups of no more than 4, you will design, implement and video an experiment that demonstrates one of these unique properties. In addition, you are required to provide a scientific explanation detailing the specifics of how this unique property is occurring.

Your group will be randomly assigned one of the “water experiments” below.

WATER EXPERIMENTS

- PEPPER ON WATER; ADD SOAP TO FINGER
- WATER TRANSFER THROUGH CAPILLARY ACTION
- MIXING OIL, WATER, AND DETERGENT
- BENDING WATER WITH STATIC ELECTRICITY
- INSTANT ICE IN BOTTLE
- WATER/ICE-BENDING
- WATER “BEADING” IN A HOT POT
- WATER & ALCOHOL IN SHOT GLASSES
- FIREPROOF BALLOON
- WATER SUSPENSION (COVER BOTTLE) SHOVE TOOTHPICKS THROUGH
- LIGHT-BENDING (FLASHLIGHT SHINING THROUGH A LEAKING BOTTLE)

You will then be responsible for creating a detailed experimental procedure, performing and video-recording your group completing the experiment, and elaborating on the scientific properties being displayed.

Your group will be graded on your written experimental procedure, successful completion of the experiment, quality of the video-recording, and accuracy/detail of the scientific explanation. A scoring rubric will be provided.