

# Kid Scoop

THE AWARD-WINNING PRINT & ONLINE FAMILY FEATURE



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## SOME THINGS JUST DON'T GET ALONG!



Have you ever seen the sheen of oil on a puddle of water? When water lands on oil in the street, the oil floats to the surface. It just won't mix with the water.

Try this oil and water experiment. Can you get the two to stick together?



## SCIENTIST'S NOTEBOOK

Perform this experiment and record your observations here!

**QUESTION:** Will oil and water mix?

**HYPOTHESIS:** What will happen when I try to mix oil and water?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

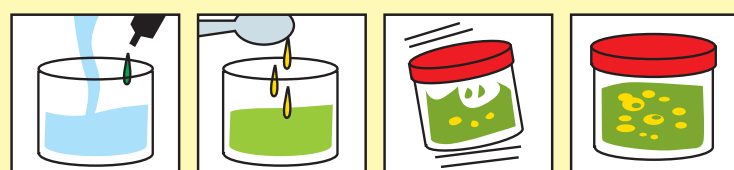
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**TOOLS FOR EXPERIMENT:**

- Small clear jar or bottle with screw top
- Water
- Food coloring
- 2 tablespoons of cooking oil
- Measuring spoon

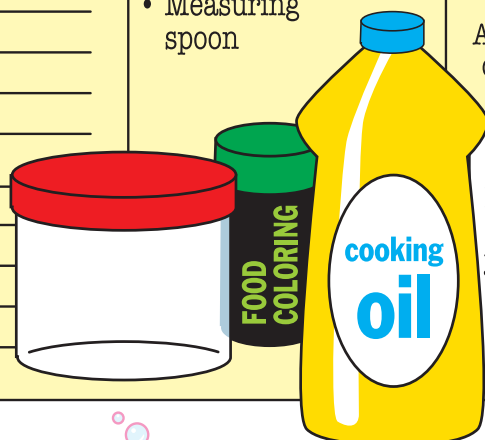
**METHOD:**



- Fill the jar about half way with water. Add a couple of drops of food coloring.
- Add the 2 tablespoons of oil to the colored water.
- Screw the lid on tight and shake the jar as hard as you can.
- Set the jar down and see if the water and oil mixed together.

**OBSERVATION / CONCLUSION:**

Draw or describe what you see.



Standards Links: Investigation: Students plan and conduct simple investigations.

### Why won't the water and oil mix?

Water usually \_\_\_\_\_ well with other liquids to \_\_\_\_\_ solutions. But, as this experiment shows, oil and water do not mix. Water **molecules** are strongly \_\_\_\_\_ to each other. So are oil molecules. Because each is more attracted to its own \_\_\_\_\_, they just don't mix together. They separate, and the oil \_\_\_\_\_ above the water because it has a lower **density**.

Replace the missing words.

**ATTRACTED MIXES FORM FLOATS MOLECULES**

### SOAP MIXES THINGS UP!

If you add a few drops of dishwashing liquid to your jar of water and oil, what happens?

Cut out these sentences and put them in the correct order for an explanation.

\_\_\_\_\_ or two of dishwashing liquid. Both oil and water are \_\_\_\_\_

\_\_\_\_\_ There is one way to get oil and water to mix. Add a drop \_\_\_\_\_

\_\_\_\_\_ molecules to hook up, which is why adding dishwashing \_\_\_\_\_

\_\_\_\_\_ attracted to dishwashing liquid. It helps the oil and water \_\_\_\_\_

\_\_\_\_\_ plates and into the water!

\_\_\_\_\_ liquid to water helps remove oil and grime off the \_\_\_\_\_

Standards Links: Physical Science: Understand things can be done to materials to change some of their properties.

**OBSERVATION / CONCLUSION:**

Draw or describe what you see.

**Extra! Extra!**

### Molecule Dot-to-Dot

On one page of the newspaper, find and circle the letters that spell **molecule**. Connect the letters in order, and then create a design that you color.

Repeat with other science words: **matter investigation scientific hypothesis**

Standards Links: Spelling: Spell grade-level appropriate words correctly.

### Kid Scoop Puzzler

How many of these see-through fish can you find?



Standards Links: Reading Comprehension: Follow simple written directions.

### Double Double Word Search

- EXPERIMENT SOLUTIONS SCIENTIST MOLECULE SURFACE DENSITY FLOATS LIQUID SHEEN WATER STICK TRACK FOOD OIL MIX

Find the words in the puzzle. How many of them can you find on this page?

O D I U Q I L S I S  
Y M O L E C U L E H  
T N E M I R E P X E  
I D O O F S R L I E  
S A O A T N E D M N  
N S C I E N T I S T  
E E C F L O A T S W  
D K C A R T W A T E  
R S O L U T I O N S

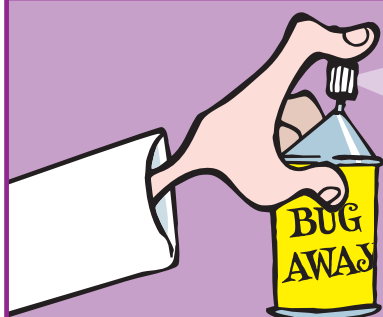
Standards Link: Letter sequencing. Recognize identical words. Skim and scan reading. Recall spelling patterns.

### FROM THE Kid Scoop LESSON LIBRARY

#### Cause & Effect

1. Find a headline that shows a cause and effect.
2. Find a headline that describes an effect, and then read the article to determine the cause.

Standards Links: Reading Comprehension: Understand cause and effect.



### How did the scientist invent bug spray?

ANSWER: From scratch.

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