

**ZOOMsci  
Activities**

**Try It Out**

**ZOOMon:  
Change One  
Variable**

**Share Your  
Results**

**Keep  
ZOOMing**

**FLUIDS**

**Chromatography**



Separate the colors mixed inside a marker.

- Brand of marker
- Type of paper
- Type of liquid

- What color was the marker you used?
- What colors did you see when you added water to the marker?
- Why do you think you saw those colors?

Keep experimenting with color dyes in liquids:

- Color Symphony
- Hot and Cold Water

**Color Splash\***



Find out what happens when you mix food coloring with water and oil.

- Type of oil
- Type of liquid you add

- Why does the food coloring behave differently in the oil layer than in the water?
- What happens if you mix food coloring with other liquids?

Learn more about liquids:

- What's More Dense?
- Hot and Cold Water

**Drops on a Penny**



Find out how many drops of water fit on a penny.

- Type of liquid
- Size of coin

- How many drops fit on a penny?
- Why did the water stay on the coin?
- Why did different coins hold different numbers of drops?

Explore surface tension:

- Pepper
- Soap-Powered Boat

**Floating Paper Clip**



Make a paper clip float.

- Type of liquid
- Type of object

- What happened when you dropped a paper clip in the water? Why?
- How did you make the paper clip float? Why did it float?

Learn more about surface tension:

- Drops on a Penny
- Pepper

**Water Filter**



Clean dirty water by inventing your own filter.

- Type of filter material
- Order of filter layers

- What did each material filter out?
- Why did some materials filter better than others?
- How did you order the layers? Why?

Test other ways to separate things:

- Water Density
- What's More Dense

\* indicates Spanish version available