



**MOLECULES IN
MOTION**

MOLECULES MATTER LAB

WATER OBSERVATIONS





MOLECULES MATTER LAB

- Ease of splitting water drop
- Ease of joining up water drops
- What do our observations tell us about water at the molecular level?

MOVEMENT OF DYE IN ROOM TEMPERATURE WATER

- What do our observations tell us about water at the molecular level?



MOLECULAR MODEL INSTRUCTIONS....WHY?

- . Using circles and motion lines to represent water molecules, draw a model of water on the molecular level. Be sure to show that water molecules are:
 - Randomly arranged. • **Because water is a liquid**
 - Close together because they attract each other. • **Because the molecules attract each other**
 - Moving • **Because all molecules are moving/vibrating some amount**

MOVEMENT OF DYE IN HOT AND COLD WATER DEMO

- Make observations
- Think about the molecular motion of the hot vs. cold water



DEMO DIFFUSION OF DYE IN HOT VS. COLD WATER



- <https://www.youtube.com/watch?app=desktop&v=uyg1sa0HxPA>



ASSIGNMENT

- Complete *Molecules in Motion*