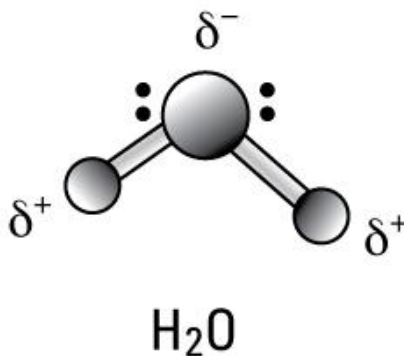


Density & Miscibility Quiz

Definitions

1. miscible
2. immiscible
3. hydrophobic
4. hydrophilic

Draw a water molecule (stick model) below; label the charges on the atoms.



Circle True or False

- | | | |
|--|---|---|
| Oil, water and corn syrup are miscible. | T | F |
| Ethanol and water are miscible. | T | F |
| A hydrogen bond is a force. | T | F |
| Oil and other carbon chains are hydrophilic. | T | F |
| Detergent is both hydrophobic and hydrophilic. | T | F |

Questions

In an oil spill, what type of environmental clean-up could take advantage of the immiscibility between oil and water? Explain.

What type of oil spill clean-up method is similar to the role that the detergent played in the density column? Explain.