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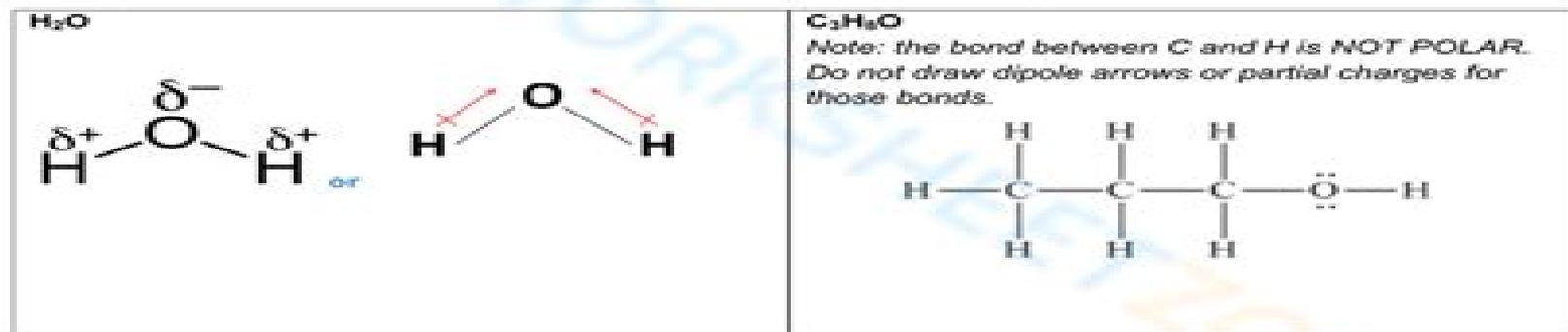
## Intermolecular Forces Lab Worksheet - Answer Key



**Directions:** Today you will complete two experiments that compare the properties of water to isopropanol (a type of rubbing alcohol). Before conducting each experiment, you will first read about the experiment and then make a prediction about what you think will happen. Afterward you do the experiment, you will write an explanation of what was happening at the atomic level that let us observe these properties.

**Introduction:** In many ways, water is a miracle liquid. It is essential for all living things on earth and it is often referred to as a universal solvent because many substances dissolve in it. Water displays unusual properties due to the ways the individual water molecules interact with each other.

1. Draw the structural formula (with lone pairs) for the two molecules we will be comparing today, water ( $\text{H}_2\text{O}$ ) and isopropanol ( $\text{C}_3\text{H}_8\text{O}$ ). Draw a dipole arrow to show the direction the electrons are being pulled and label the areas of partial positive and negative charges.



2. Which molecule is more polar? water

### Experiment #1: Penny

How many drops of water fit on the head of a penny? How many drops of isopropanol fit on the head of a penny?

#### Prediction:

- a. I think \_\_\_\_\_ drops of water will fit on the head of the penny because \_\_\_\_\_

# Intermolecular Forces Lab And Answers

**Bassam Z. Shakhashiri**



## **Intermolecular Forces Lab And Answers:**

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**Lab Manual T/a Human Physiology** Bill W. Tillery, 2001-03

**Take-Home Chemistry** Michael Horton, 2011 For high school science teachers homeschoolers science coordinators and informal science educators this collection of 50 inquiry based labs provides hands on ways for students to learn science at home safely Author Michael Horton promises that students who conduct the labs in Take Home Chemistry as supplements to classroom instruction will enhance higher level thinking improve process skills and raise high stakes test scores

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