

Unit 2 Worksheet 1

1. You decide to boil water to cook noodles. You place the pan of water on the stove and turn on the burner.
 - a. How does the behavior of the water molecules change as the pan of water is heated?

 - b. What about your answer to (a) would change if there were more water in the pan?

2. What property of matter best describes the way a typical alcohol thermometer works? Explain (in terms of energy transfer) why the alcohol level in the thermometer rises (or falls) when you place the thermometer in contact with both warmer (or colder) objects.

3. Does the concept of temperature apply to a single molecule? Explain.

4. If you feel feverish, why can't you take your own temperature with your hand?

