

## 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. How would your answer to (a) if there were more water in the pan?
  
  
  
  
  
  
  
  
  
  
2.
  - a) What property of matter best describes the way a typical alcohol thermometer works?
  
  
  
  
  
  
  
  
  
  
  - b) Explain (in terms of energy transfer) why the alcohol level in the thermometer rises when the thermometer is in contact with warmer objects.
  
  
  
  
  
  
  
  
  
  
  - c) Explain (in terms of energy transfer) why the alcohol level in the thermometer falls when the thermometer is in contact with cold objects.
  
  
  
  
  
  
  
  
  
  
3. If you feel feverish, why can't you take your own temperature with your hand?

