Physics 11 - Practice Questions

Unit: 6.3 Temperature, Heat and Thermal Energy

1. What are the 3 potential forms of kinetic energy that a molecule could have?
2. If the temperature of an object is 30oC, what is its temperature in Kelvin?
3. By what method can heat be transferred without the presence of matter?
4. A cold weather emergency survival suit is made of reflecting plastic material with a thin coating of regular plastic. Why is the shiny, reflecting plastic on the *inside* of suit facing your body? Why is it not wise to place this suit on someone who is already hypothermic?
5. If you are sitting in front of an open fireplace, what is the main method by which heat is transferred to you?
6. In winter, why do the blades of your skates feel cooler to the touch than your boots do?