

NAME \_\_\_\_\_

## Sleep Out Planning HW

In your **simulated** survival situation, you will have to be **aware** of the ways in which **thermal energy** will be **leaving your body**. These are conduction, convection, radiation and evaporation.

Please answer the following questions to get you **thinking** of how these methods of “heat” transfer will be involved in your sleep-out project. Remember to think and write about those in other parts of the world that might thrive in this survival experience.

1. **Conduction** can be **helpful** to you as well as **harmful**. What will you do to ensure that conduction is mostly your friend when you are out alone and not your foe?

2. **Convection** is the root cause of a natural and common weather feature. What is this “weather feature” and what will you do to mitigate its negative impact on your sleep-out situation?

3. **Radiation** is something that simply can’t be prevented because you will not be at absolute zero, although you may feel like it! What steps will you take to ensure that your “catch” some of the radiation you emit and use it again?

4. You’ll want to avoid excess **evaporation**. Explain the process of evaporation. Pay particular attention to why it is a process that leaves the objects that do not evaporate cooler. Additionally, **what will you do** during your simulated survival experiment to ensure that evaporation **does not ruin** your night?