1. [5 points]	
For some reason, a fish gets caught on land! The fish has a temperature of 45°F. The air outside has a temperature of 65°F.	
Explain how heat energy will flow. Explain why:	
Explain what will happen to the temperature of the fish. Explain why:	
When will heat energy stop flowing?	
What will be the final temperature of the fish? Why?	
2. [5 points] A lobster has been chilling in a hot tub and has a temperature of 65 degrees Celsius. Someone rudely pick sit up and throws it into a pool with a temperature of 15 degree Celsius. The pool is very large and the lobster is small by comparison.	:S
Explain how heat energy will flow. Explain why:	
Explain what will happen to the temperature of the lobster. Explain why:	
When will heat energy stop flowing?	
What will be the final temperature of the lobster? Why?	

3. [2 points]

A loaf of bread with a temperature of 22 degrees Celsius is in a room with a temperature of 22 degrees Celsius.

Explain what happens to heat energy, and why:

For each of the following situations (4 – 7), *estimate* the final temperature once thermal equilibrium is reached. EXPLAIN YOUR REASONING FOR EACH ONE! [2 points each]

- **4.** Cookies with an initial temperature of 120 degrees Fahrenheit are placed in a room with an air temperature of 60 degrees Fahrenheit.
- **5.** A small box of Eggo waffles with a temperature of 65 degrees Fahrenheit is placed in a freezer with a temperature of 2 degrees Fahrenheit.
- **6.** Two potions are mixed. The red potion has a temperature of 50 degrees Celsius and the blue potion has a temperature of 10 degrees Celsius. They potions have approximately the same mass and specific heat.

7. Rocks in water:

Assume that these rocks have an initial temperature of 30 degrees Celsius and the water has an initial temperature of 10 degrees Celsius