

HOMEOSTASIS IN THE HUMAN BODY

Name _____

Hr _____

Date _____

Part 1

1. Answer the following questions:

What is considered to be normal body temperature? _____

Do you think that normal body temperature is as high as the temperature on a hot summer day?

How do you think an organism and its cells would be helped by a warm temperature? _____

2. Take the temperatures of each person at the table by putting a thermometer strip on their forehead. Report them to the class by writing the temperatures on the chart on the board. Copy the temperatures on to the chart below and then onto the graph.

Temp	# of People

of people

Temperature

Why do you think there is so little difference in normal human body temperature while humans vary so much in other traits?

Part 2

Answer the questions below after viewing the **Fever!** video and examining **Function of Fever.**

1. What sets body temperature? _____
2. What can change the set point for body temperature? _____

3. How does stress affect body temperature? _____
4. How is fever different from a simple rise in body temperature? _____

5. What role might fever play in fighting infection? _____

6. Why does the body sweat when a fever breaks? _____

7. In what other ways does the body self-regulate? _____

Part 3 - Answer after viewing the **Body Control Center**

1. What is homeostasis? _____
2. What controls human heart rate? _____
3. Under what conditions does heart rate change? _____
4. How is respiration rate controlled? _____
5. Could you hold your breath indefinitely? _____ What would happen? _____

6. In what different ways does the body control temperature? _____

7. How does the body maintain a steady level of sugar in the bloodstream? _____

8. What happens if it is unable to regulate blood sugar? _____
9. What factors control blood pressure? _____