**“Homeostasis (and the Cell Membrane King)” Video Questions**

1. What does “homeo” mean and what does “stasis” mean in the word “homeostasis”?
2. What does your body do if you go outside in the snow wearing shorts and how does that relate to homeostasis?
3. Why does your body sweat and how does that relate to homeostasis?
4. What is the job of the cell membrane?
5. What is one way that antibiotics can fight against bacteria and how does that show homeostasis?
6. What is homeostasis and why is it important for a cell?
7. How does the cell membrane help a cell maintain homeostasis?

On the next page- draw a picture or diagram to represent homeostasis.

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**Answer Key**

1. Homeo = constant and “stasis” means stable.
2. If you go outside in the winter then your body will shiver so that your muscles will produce heat for your body. The shivering helps your body maintain a stable body temperature, which is homeostasis.
3. If you go outside in the summer then your body will sweat, which cools you off. Sweating helps your body maintain a stable body temperature, which is homeostasis.
4. The cell membrane controls what goes in and what goes out of the cell.
5. The antibiotic will pierce holes in the cell membranes of the bacteria, which means the cell cannot maintain a stable internal environment; it cannot maintain homeostasis.
6. Homeostasis is the body’s way of keeping balance
7. It controls what goes into and what goes out of the cell.