Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Watch the video *Crossing the Divide* and answer the following questions.

1. Nerve cells communicate at a junction called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. What is the synaptic cleft?
3. What is a vesicle?
4. What type of neurotransmitter is used in the reward pathway of the brain?
5. The cell that will receive the message is coated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. A \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ triggers the vesicles in the sending cell to dump their contents into the synaptic cleft.
7. Receptors are shaped to fit a particular type of neurotransmitter like a \_\_\_\_\_\_ and \_\_\_\_\_\_\_.
8. What is released into the receiving cell?
9. Once the dopamine has done its job, what takes place?
10. Where does the second messenger travel to in the receiving cell?
11. What are two reasons an impulse will stop?
12. How many neurons can one neuron synapse with?