

Name:

Date:

Class:

Plasticity Pre-Assessment

Directions

Answer the following questions the best you can. You are not expected to know the answers, and this assignment will not be graded.

1. How do sound waves get converted to electric impulses (spikes of neurons) in our ear?
2. How does sound get transmitted from the ear to the amygdala, the fear center of our brain? Do normal sounds cause the amygdala to elicit fear, and if so, how?
3. Similar to the previous question, what is the neural pathway for the transmission of shock to the amygdala? Do you think shock causes the amygdala to elicit fear and if so, how?
4. What does it mean that the amygdala learns fear?
5. Explain how the pairing of tone and shock causes the amygdala to learn fear.