Name: Date: Class:

Mission Myelin: Results Sheet

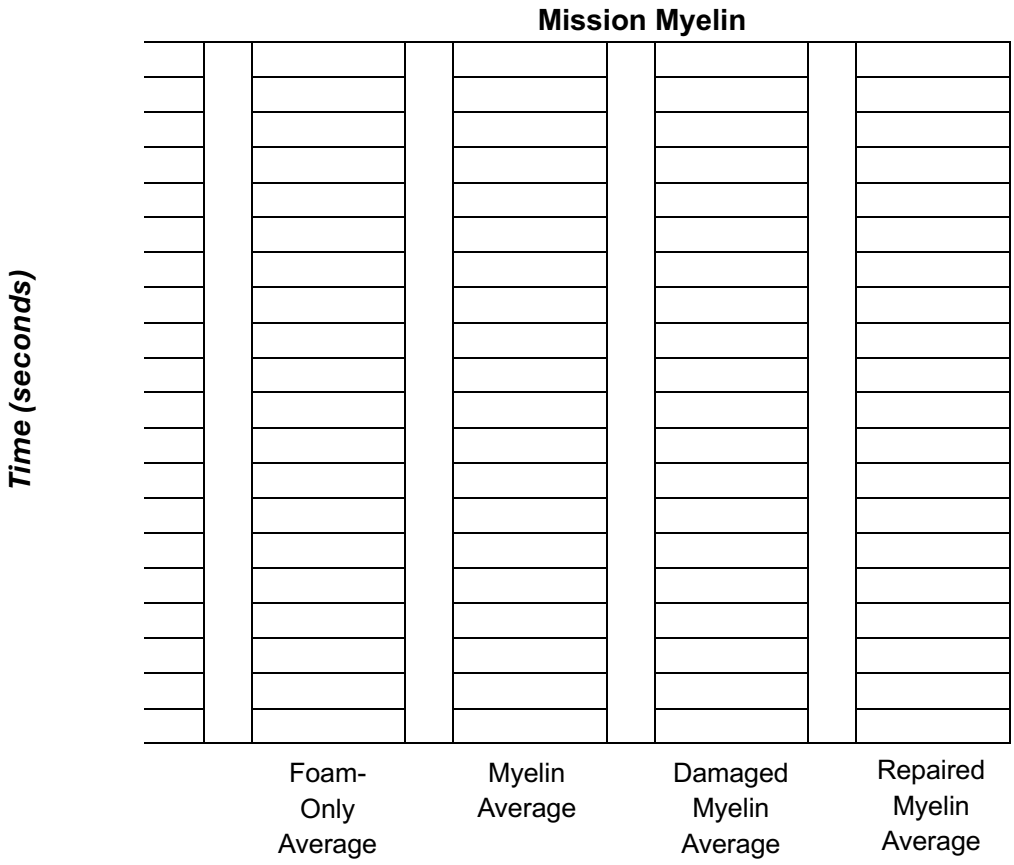
Instructions: Complete this sheet with your partner.

Have these materials ready:

- pencil
- Mission Myelin: Model sheet
- Mission Myelin: Damage sheet
- Mission Myelin: Repair sheet

GRAPH

1. **Graph the average time for each version of your Myelin tube.**



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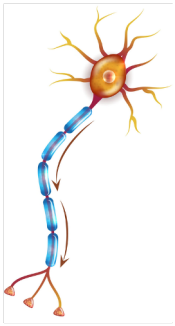
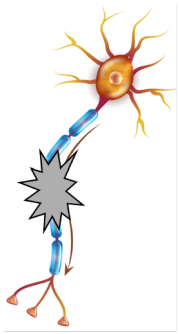
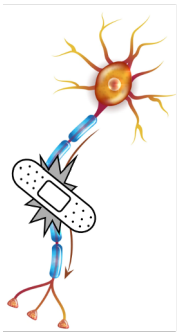
Tubes







ANALYSIS, ASSESSMENT and REFLECTION

2. How do the four averages compare?

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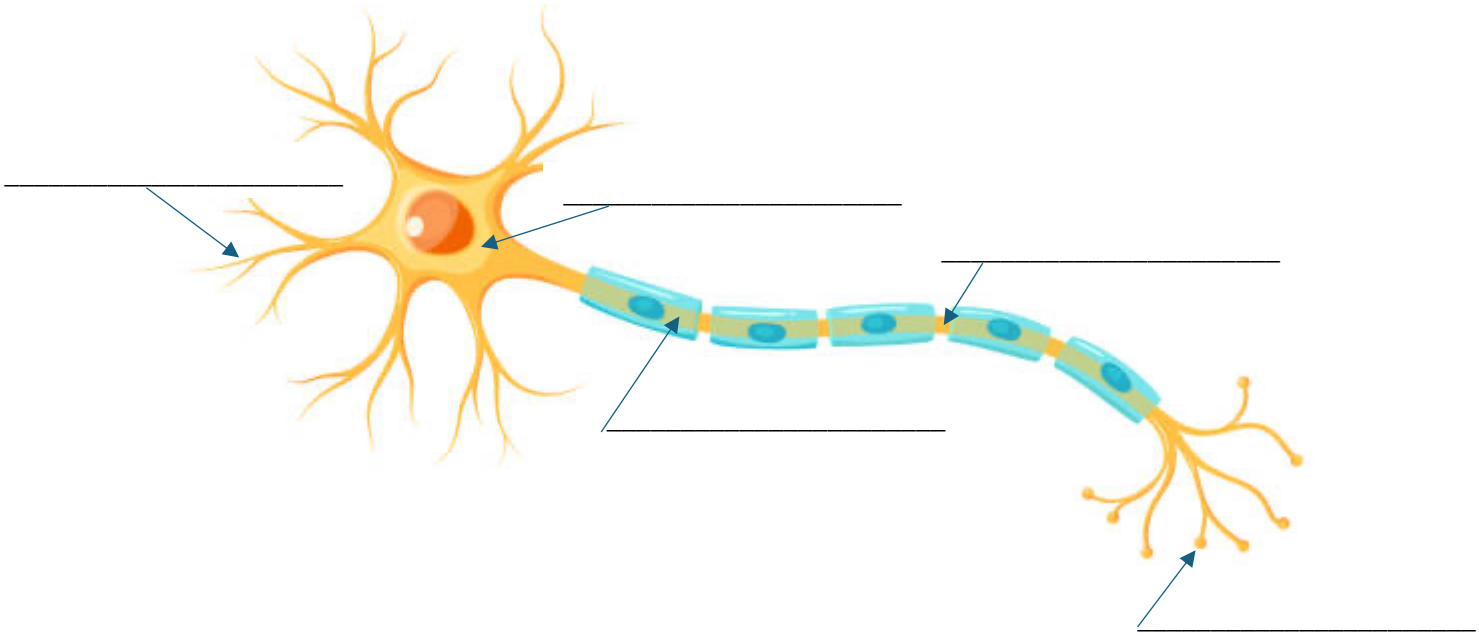
3. Label the neuron below using the words: *axon, axon terminals, cell body, dendrites, myelin*
   NEURON – Nerve Cell



4. What do the objects used in class represent in the brain?

   foam tube: _____

   material that lined the tube: _____

   marble: _____

5. What is myelin, and what does it do?

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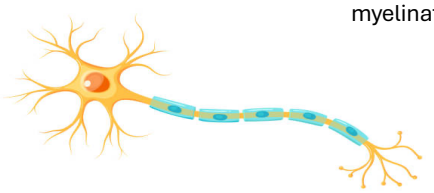
6. What does demyelinate mean, and what is one issue could it cause for a person?

7. The first box shows a myelinated neuron. Draw a representation of what a demyelinated neuron might look like in the second box.

myelinated neuron	demyelinated neuron
	

8. What does remyelinate mean, and what is one way it can help a person?

9. Have scientists discovered or invented ways to protect and/or repair myelin?
    a. Yes, scientists have discovered and invented ways for myelin to be protected and/or repaired.
    b. Yes, scientists have discovered how to protect myelin, but they haven't shared that knowledge yet.
    c. No, scientists are not even studying how to protect or repair myelin.
    d. No, scientists have not discovered or invented ways for myelin to be protected and/or repaired, but they are working on it.

10. What is an engineer?
    a. A person who studies plants and animals to understand how they live.
    b. A person who helps people save and invest their money.
    c. A person who uses science and math to design, build, or improve things that solve problems and make life better.
    d. A person who uses their hands and tools to build homes and businesses.

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11. Do you have an interest in engineering? Explain.

12. List skills someone would need to have (or develop) to be a person who studies myelin:

13. Describe one challenge you experienced while working on Mission Myelin.

14. What would you change or do differently if you repeated Mission Myelin?