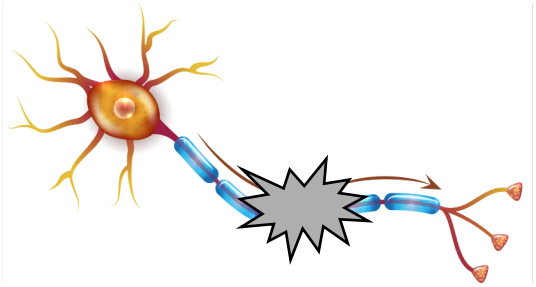
Name: Date: Class:

Mission Myelin: Damage Sheet

Instructions: Complete this sheet with your partner.



Have these materials ready:

- tube lined with damaged material connected to ramp
- stopwatch
- calculator
- pencil
- marble

TEST

1. Partner 1, hold the marble at the top of the tube opening.
2. Partner 1, say “Go” at the same time you let go of the marble. Do not push the marble; just let go.
3. Partner 2, start the stopwatch when you hear “Go.”
4. Partner 2, stop the stopwatch after the marble travels the entire length of the tube and touches the floor. (Immediately stop the stopwatch if the marble falls off or out of the tube and touches the floor before finishing its path down the tube. Record “N/A” (Not Applicable) on the data chart instead of a time.)
5. Record the number of seconds to the nearest tenth of a second in the data chart next to “Trial 1.”
6. Repeat for four more trials.

1. DATA CHART

Record times in seconds to the nearest tenth of a second.

Trial 1	Trial 2	Trial 3	Trial 4	Trial 5

2. MEAN (AVERAGE)

Calculate the average time in seconds to the nearest tenth of a second.
(Add all the numbers together. Then, divide the sum by the total number of values in the set.)

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3. Describe the damage you noticed:

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4. How does your average time compare with your undamaged myelin surface average time?

5. What did you observe as the marble traveled through the damaged or missing myelin?

6. How does your average time compare with the average time of other groups?