Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Build an Electromagnet! Lab Sheet

|  |  |
| --- | --- |
| Number of times coils are wrapped | Strength of the Magnetic Field  (number of paperclips picked up) |
| **Trial 1:** 15 times |  |
| **Trial 2:** 30 times |  |
| **Trial 3:** 45 times |  |

1. Which trial attracted and held the most number of paperclips? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Why do you think that is?

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1. What could you do to make the electromagnet **stronger**?

Try to think of three possibilities.

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1. Explain how your electromagnet differs from a traditional magnet?

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1. List a common reason an electromagnet is used in technology over traditional magnets.

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