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| **Magnetic Field Investigation**Using two bar magnets, move one magnet with the other magnet (WITHOUT ALLOWING THEM TO TOUCH).1. Explain HOW you accomplished this.
2. Briefly explain the patterns you observe after spreading the iron filings over the wax paper.
3. Single Bar Magnet
4. Two Bar Magnets attracting each other
5. Two Bar Magnets repelling each other
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| **Maglev Train System**1. Run your train across the track numerous times and make careful observations. Observation 1: Observation 2: Observation 3:2. Explain how the structure of the Maglev Train System supports its function. |
| **Magnet vs Compass**1. Practice and Observe how the compass works.2. Place a magnet next to the compass. What is the effect?

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| **Trial** | **Distance (meters)** |
| 1 |  |
| 2 |  |
| 3 |  |

3. Using a meter stick, measure the distance of the effect the magnet has on the compass until the compass needle returns to true north. Repeat the process 3 times and record your data on the table below.  |