

Magnetic Linear Accelerator Worksheet

Questions

1. Draw the setup of the linear magnetic accelerator. Describe the sequence of the ball interactions. What type of collision(s) does the ball and magnets experience? Do the balls appear to have more or less speed after each collision?

2. What force moves the ball bearings along the track?

3. Does the final ball have more speed than the original ball? If so, develop a hypothesis to explain how this is possible.

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