

Name \_\_\_\_\_

## Magnetic Marvels: The Inner Workings of Magnets

### Open-Ended Response Answer Key

1. Answers may vary but should include engaging demonstrations or examples, such as using magnetic toys or showing how magnets can pick up metal objects.
2. The historical development of magnets includes their discovery by ancient civilizations, their use in navigation (e.g., compasses), and their role in technological advancements, such as electricity generation and medical imaging.
3. Advanced technologies like magnetic levitation trains and MRI demonstrate how magnets can be harnessed for innovative purposes, improving transportation and medical diagnostics.
4. Ethical considerations related to magnets include data privacy and security with magnetic stripe cards, as well as responsible disposal and recycling of magnets to minimize environmental impact. Individuals and companies should prioritize ethical magnet use.

