

Strong Nuclear Forces: Teacher Answer Key

1. What three particles make up an atom and what are the electrical charges of the three particles?
Protons, neutrons and electrons. Protons have a positive (+) charge. Neutrons have a neutral charge (0). Electrons have a negative charge (-).
2. Try placing the like poles of two magnets together. What happens? How might protons react in a nucleus?
The magnets repel due to the electromagnetic forces causing like poles/charges to repel. Electromagnetic forces cause protons to repel.
3. Hypothesize or explain how the nucleus of an atom is held together. **Answers will vary.**
4. Based on what you learned, do you agree with your response to question 3? Explain your answer. **Answers will vary.**