



Unit 5D

Electric Potential Energy and Electric Potential

Questions to Consider

Date:

Name:

Answer the following.

- 1. How is electric potential defined, and what is another name for it? Circle the correct answer:
 - a. electric potential energy, momentum
 - b. force acting on a charge, coulomb
 - c. potential energy per charge, voltage
 - d. force per unit charge, kinetic energy
 - e. force times electric field, force field
- 2. What is the difference between electric potential energy and gravitational potential energy? List an object that has one type of potential energy but not the other.
- 3. What is the difference between electric potential energy and electric potential?

4. For the following scenarios, circle YES or NO to indicate whether the negative charge has electric potential energy.



questions continued on next page

Unit 5D Notes and Questions STUDENT

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Answer the following.

5. Explain what it means when an object has potential energy.

6. In the following statement, circle INCREASES or DECREASES to indicate how quantities change:

When work is done on a positive test charge to move it from one location to another, electric potential energy (INCREASES / DECREASES) and electric potential (INCREASES / DECREASES).

7. Why is electric potential a useful concept? Give your answer in terms of the electric field created by a source charge.