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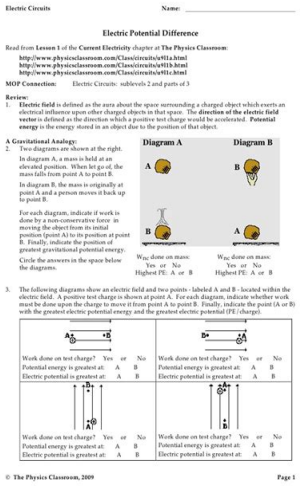
so many fake sites. this is the first one which worked! Many thanks



Electric Circuits Name: _____

Electric Potential Difference

Read from **Lesson 1** of the **Current Electricity** chapter at **The Physics Classroom**:
http://www.physicsclassroom.com/Class/circuits/u9l1a.html
http://www.physicsclassroom.com/Class/circuits/u9l1b.html
http://www.physicsclassroom.com/Class/circuits/u9l1c.html

MOP Connection: Electric Circuits: sublevels 2 and parts of 3

Review:

1. **Electric field** is defined as the aura about the space surrounding a charged object which exerts an electrical influence upon other charged objects in that space. The **direction of the electric field vector** is defined as the direction which a positive test charge would be accelerated. **Potential energy** is the energy stored in an object due to the position of that object.

A Gravitational Analogy:

2. Two diagrams are shown at the right.

In diagram A, a mass is held at an elevated position. When let go of, the mass falls from point A to point B.

In diagram B, the mass is originally at point A and a person moves it back up to point B.

For each diagram, indicate if work is done by a non-conservative force in moving the object from its initial position (point A) to its position at point B. Finally, indicate the position of greatest gravitational potential energy.

Circle the answers in the space below the diagrams.

Diagram A

A

B

W_{NC} done on mass: Yes or No
Highest PE: A or B

Diagram B

B

A

W_{NC} done on mass: Yes or No
Highest PE: A or B

3. The following diagrams show an electric field and two points - labeled A and B - located within the electric field. A positive test charge is shown at point A. For each diagram, indicate whether work must be done upon the charge to move it from point A to point B. Finally, indicate the point (A or B) with the greatest electric potential energy and the greatest electric potential (PE/charge).

Work done on test charge? Yes or No
Potential energy is greatest at: A B
Electric potential is greatest at: A B

Work done on test charge? Yes or No
Potential energy is greatest at: A B
Electric potential is greatest at: A B

Work done on test charge? Yes or No
Potential energy is greatest at: A B
Electric potential is greatest at: A B

Work done on test charge? Yes or No
Potential energy is greatest at: A B
Electric potential is greatest at: A B

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