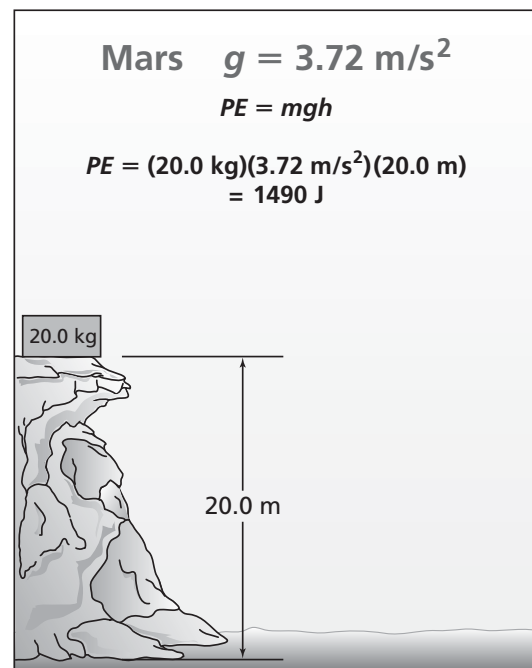
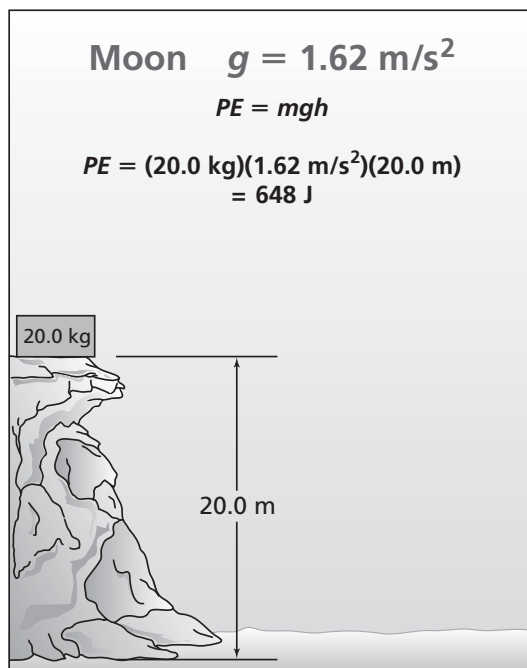
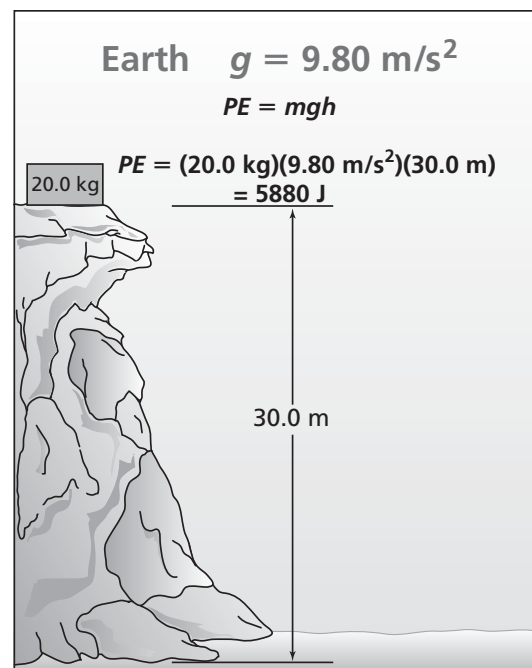
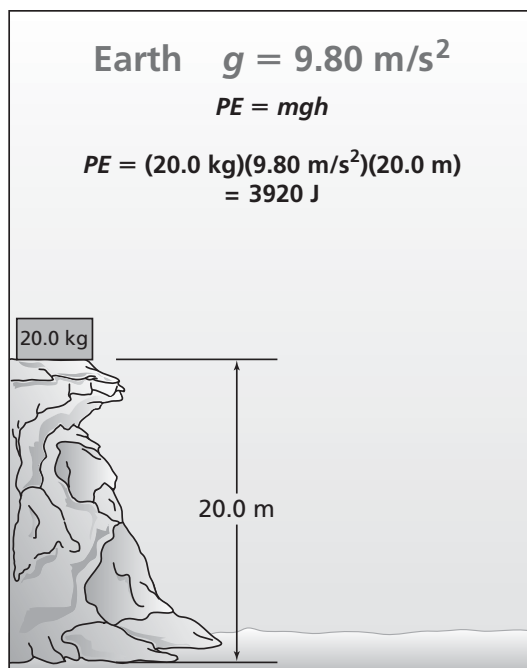


## Potential Energy at Varying Locations

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# 11 Transparency 11-2 Worksheet

## Potential Energy at Varying Locations

1. In the equation shown, what does  $PE$  stand for?  
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2. In the equation shown, what does  $m$  stand for?  
\_\_\_\_\_
3. In the equation shown, what does  $g$  stand for?  
\_\_\_\_\_
4. In the equation shown, what does  $h$  stand for?  
\_\_\_\_\_  
\_\_\_\_\_
5. What is the difference between the two situations on Earth in the upper drawings? How does this difference affect the potential energy?  
\_\_\_\_\_  
\_\_\_\_\_
6. What is the difference between the first situation on Earth and the situation on Mars? How does this difference affect the potential energy?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. What is the difference between the situation on the Moon and the situation on Mars? How does this affect the potential energy?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. If the object on the Moon were raised to a height of 30.0 m, what would be its potential energy?
9. If the object on Mars were raised to a height of 30.0 m, what would be its potential energy?