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| potential energy vs kinetic energyEast.H.S. ©λ€M|5+rγvisit http://genest.weebly.com | http://media.merchantcircle.com/32105936/dog-chef_full.gif | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Come for assistance and cheerful encouragement after school Tues, Thurs, every day at lunch |

1. An object has energy if it can push a second object and make it move. Use your imagination to tell what could get pushed by each of these forms of energy.

|  |  |  |
| --- | --- | --- |
| Object | Type of energy | How could it push something? (Be imaginative. There are no pre-determined "correct" answers.) |
| A book on a high shelf | □ kinetic□ potential |  |
| steam from a kettle  | □ kinetic□ potential |  |
| A little pile of gunpowder.  | □ kinetic□ potential |  |
| Mercury expanding  | □ kinetic□ potential |  |
| loud, loud sound from a trumpet  | □ kinetic□ potential |  |
| A book on the floor of our classroom  | □ kinetic□ potential |  |
| a Snickers ™ bar with almonds  | □ kinetic□ potential |  |
| Getting energy by eating candy | □ kinetic□ potential |  |

1. Convert the following to normal numbers



1. write the answer to the correct number of significant figures

|  |  |
| --- | --- |
|  | = |

1. write the answer to the correct number of significant figures

|  |  |
| --- | --- |
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| 1. Here's a fellow with a powerful rolling electrical sound system that makes the air vibrate with sound waves. Try to list a total of eight forms of energy in this system. Divide the energy that you list into Kinetic Energy and Potential Energy (hint: think in terms of electrical energy ,heat, chemical energy, moving particles, light energy, etc)

|  |  |
| --- | --- |
| kinetic energy | potential energy |
|  |  |

 | soundEnergy.jpg |

For each pair of quantities mark < , =, or >.

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| --- | --- | --- | --- |
| Example: | U.S. Deaths due to bicycle accidents | \_\_>\_\_ | U.S. Deaths due to Ebola  |

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| --- | --- | --- | --- |
|  | 1. The temperature of 300°C water
 | \_\_\_\_\_\_\_\_ | The temperature of 300K water |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1. The mass of a 300 μg object
 | \_\_\_\_\_\_\_\_ | The mass of a 300 ng object |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1. 6.878 x 101
 | \_\_\_\_\_\_\_\_ | 9.4608 x 10-6 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1. The value of
 | \_\_\_\_\_ | The value of |

1. For the following sample data, is the value V/T growing, shrinking, or a constant value?

|  |  |
| --- | --- |
| 1. For the following graph, what value did the student obtain for "absolute zero"?
 | 1. For the following graph, what value did the student obtain for "absolute zero"?
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