**Activity 2.3 & 2.4 Wrap-up Notes**

* Potential energy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of objects with electric or magnetic potential energy
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deals with the type of electric charges built up in the field
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deals with the position of magnets/poles
* If the electric or magnetic field is changed, it changes the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stored in the field
  + Field is affected by:

1. Type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ orientation
2. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ built up on an object
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between charged objects

* A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is needed to have potential energy
* There must be an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The potential energy *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* the force needed to keep the object *in its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
* Amount of energy in field depends on position & charge of 2 objects
* 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ objects must have a \_\_\_\_\_\_\_\_\_\_\_\_\_ distance difference to have \_\_\_\_\_\_\_\_\_\_\_\_potential energy stored in field
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ repel
  + A force is needed to keep them from moving apart (repelling)
* 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ objects must have a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ distance difference to have low potential energy stored in field
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ attract
  + A force is needed to keep them from moving together

\*\*\* Objects with built up energy in fields are most \_\_\_\_\_\_\_\_\_\_\_\_\_\_ when they have \_\_\_\_\_\_\_\_potential energy

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  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deals with the type of electric charges built up in the field
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* If the electric or magnetic field is changed, it changes the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stored in the field
  + Field is affected by:

1. Type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ orientation
2. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ built up on an object
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between charged objects

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  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ attract
  + A force is needed to keep them from moving together

\*\*\* Objects with built up energy in fields are most \_\_\_\_\_\_\_\_\_\_\_\_\_\_ when they have \_\_\_\_\_\_\_\_potential energy