

Act. 2.2 Wrap-Up Notes

- Interaction through direct contact
 - Objects touch
 - Pickup basketball and lift above the Earth's surface
- Interaction through indirect contact (use of fields)
 - Potential energy built up is from the relative forces between interacting objects & the forces between them
 - Potential energy is stored in the field around the objects
 - Large distance moving = potential energy is large because it's not moving

NB entry #7

Types of Indirect contact:

- Magnetic potential energy
 - Have an invisible magnetic force acting against objects
 - Amount of potential energy depends on the position of magnets and type of poles (North/South)
 - Force strength changes with position of magnets
 - closer = stronger attraction
 - Field is stronger closer to magnet
- Gravitational potential energy
 - Exists because of gravity acting on an object
 - Changes depending on the distance between 2 objects
 - Further from surface of Earth = higher potential energy
- Electric potential energy
 - Due to the electrical charges +/- an object has
 - stronger electric field = higher electric potential energy
 - Changes depending on the distance between charged objects
 - Static electricity – the charges built on an object
 - Van de Graaff generator can be used to create a spark
 - Spark indicates that energy was transferred from one object to another to neutralize
 - Energy was stored in the field around the VDG or charged particles

NOTE:

* don't forget to fill out your table of contents *

ENTRY

7

TITLE

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DATE

3/4