PS Physics – Unit 1B

Universal Forces

Universal Forces

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – associated with charged particles.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_ force and \_\_\_\_\_\_\_\_\_\_\_\_\_ force are the only forces that can both \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forces act between charged objects or particles such as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forces act on certain \_\_\_\_\_\_\_\_\_\_\_\_\_\_, on the poles of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and on moving charges.
	+ \*\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = do not need to be in contact – forces act over a distance
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – one strong and one weak – hold the \_\_\_\_\_\_\_\_\_\_ of atoms together and keep the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from repelling each other and destroying the atom
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nuclear force acts only on \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ in a nucleus – holds them together. Acts at a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ than \_\_\_\_\_\_\_\_\_\_\_\_\_\_ nuclear forces.
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nuclear force acts only over a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Force – an attractive force acting between any two \_\_\_\_\_\_\_\_\_\_\_\_
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ force depends on two factors: \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ apart
	+ More \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or less \_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_ gravity
	+ Gravity acts over \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ distances
	+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ universal force
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – center-directed force that continuously changes the direction of an object to make it move in a circle
	+ Earth’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ attraction keeps the \_\_\_\_\_\_\_\_\_\_\_\_ in an orbit around the Earth. This gives us \_\_\_\_\_\_\_\_\_\_\_\_\_. Similarly to how the \_\_\_\_\_\_\_\_\_ orbits Earth, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are also able to orbit Earth!