12/13/2017

Review of Previous Lesson

- State as many Vocabulary words and Learning Objectives that you remember from the last lesson as you can.
- Remember to grade yourself from 0 3.

Voc	<u>cabulary</u>		12,	/13
	Language:	Start	End	
	explain			
	define			
	order			

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Fundamental Forces

Learning Objectives

Content: Start End

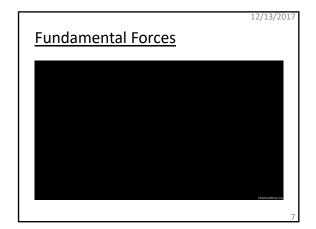
Define and explain each fundamental force: Strong, Electromagnetic, Weak, Gravitational Forces.

Order forces based on magnitude of strength.

Vocabulary

Content: Start End
force
strong
electromagnetic
weak

Learning Objectives		12/13/2017
Language:	Start	End
Define, explain and order verbally and in writing.		
		6



Plenary

 Choose one of your lowest graded words from the vocabulary of this lesson and create a vocabulary word map.

 Definition in your own words.

 Use it meaningfully in a sentence.

| Vocabulary Word | Draw a picture of it.

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The Four Fundamental Forces of Nature

Weakest - Strongest

You need to memorise the order!

- $1. \quad Gravitational \ Force \textit{Weakest force but infinite range}.$
 - Acts between any two masses in the universe and is always attractive.
- Weak Nuclear Force Next weakest but short range (10 -18 m).
 Causes radioactive decay.
- 3. Electromagnetic Force Stronger with infinite range.
 - Causes electric and magnetic effects and can be attractive or repulsive.
- 4. Strong Nuclear Force Strongest but short range (10 $^{-15}$ m).
 - Holds the nuclei of atoms together and is basically attractive, but can be effectively repulsive in some circumstances.

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Grade yourself.

• Grade yourself on the vocabulary and learning objectives of the presentation.

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Problems and Solutions

 https://www.antonineeducation.co.uk/Pages/Physics 1/Particles/PP05/Fundamental Forces.htm

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