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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.

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Vocabulary

Language:	Start	End
explain		
define		
order		

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Fundamental Forces

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Learning Objectives

Content:	Start	End
Define and explain each fundamental force: Strong, Electromagnetic, Weak, Gravitational Forces.		
Order forces based on magnitude of strength.		

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Vocabulary

Content:	Start	End
force		
strong		
electromagnetic		
weak		

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Learning Objectives

Language:	Start	End
Define, explain and order verbally and in writing.		

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Fundamental Forces



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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.	Vocabulary Word	Synonyms
Use it meaningfully in a sentence.		Draw a picture of it.

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The Four Fundamental Forces of Nature

Weakest - Strongest

You need to memorise the order!

1. Gravitational Force – *Weakest force but infinite range.*
 - Acts between any two masses in the universe and is always attractive.
2. 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.antonine-education.co.uk/Pages/Physics_1/Particles/PP05/Fundamental_Forces.htm

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