



Thomas Haney Secondary School

LG 10: Nuclear Reactions
Professor Dave Explains
Worksheet

23000 116 Ave, Maple Ridge, B.C. V2X 0T8

Telephone: (604)463-2001

1. What are the four (4) fundamental forces in the universe? (0.45)

1. _____
2. _____
3. _____
4. _____

2. What is nuclear decay? Explain. (1:29)

3. What are the three (3) types of radiation? AND write an example of each. (3:00)

*****Hint...don't include positrons*****

1. _____ Example: _____
2. _____ Example: _____
3. _____ Example: _____

4. Why are elements bigger than Bismuth (Bi) radioactive? Make reference to forces acting on the nucleus. (5:50)

5. What is radiation and why is it dangerous to living things? (10:32)

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6. How do we stop radiation from causing mutations? (11:00)

7. What is nuclear fusion? (12:45)

8. Matter is said to be energy. Please explain. $E=mc^2$?
