Nuclear Chemistry Fact Book

Make a fact book about Nuclear Chemistry. Make a title page with your name and the title of your book. Your book will have 3 chapters listed below. Information for each chapter is listed below. Make a table of contents (3 points). Each chapter must contain at least 3 illustrations or pictures with captions (9 points total). Number each page of your book. 5 points. Use Nearpod to help you with your book.

Due : April 9, 2017 (Monday we return from Spring Break)

Make a table of contents (3 points)

**Chapter 1 Radioactivity**

1. What are the 3 main types of radiation? What can each penetrate through? Draw an illustration of this. (5 points)
2. What is radioactive decay? (2 points)
3. What is a transmutation? (2 points)
4. Describe half-life. Give one example. (2 points)

**Chapter 2Nuclear Reactions**

1. What is fission? (2 points)
2. What is a chain reaction?(2 points)
3. What is fusion?(2 points)
4. Make an illustration to show both fission and fusion and explain the difference.(5 points)

**Chapter 3 Nuclear Applications**

1. Describe the basics of a nuclear power plant. (2 points)
2. Where are nuclear power plants in Georgia? (google this) show on a map. ( 5 points)
3. Choose one of the following to investigate: Make a mini-poster in your book to display what you have learned. (15 points)
4. Irradiated Food
5. Radioactive Dating
6. Nuclear Medicine Make a mini-poster in your book to display what you have learned.

Extra Credit: (5 points) Super cool index page with extra information not covered in your presentation. Teach me something new!