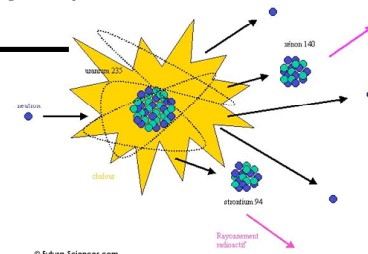


Name: \_\_\_\_\_ Period: \_\_\_\_\_

Final Due Date: **Friday, 3/9/07**

# Nuclear Reactions & Radiation

La fission nucléaire



## objectives:

STUDENTS WILL BE ABLE TO:

- A. Evaluate the uses and effects of Radioactivity in people's daily lives.
- B. Compare nuclear fission to nuclear fusion.

## lectures:

- Monday, 3/5/07-What is Radioactivity?
- Tuesday, 3/6/07-Nuclear Fission and Fusion
- Wednesday, 3/7/07-Nuclear Radiation Today
- Thursday, 3/8/07-Chapter 9 Activity Day
- Friday, 3/9/07, ALL LAYERS DUE!!!!



## c layer activities:

Students must earn at least 70 points to receive a "C" grade for this unit. You must complete 70 points of C-Layer activities to advance to B-Layer activities. You MUST complete activities with a "\*".

Points possible	Points earned	Assignment description	Date Due	Teacher initial
<b>Chapter 9: (70 points minimum)</b>				
*10		Read section 9.1 & outline notes. Turn in your notes <b>OR</b> Listen to lecture, participate & take notes on 3/5/07. Turn in your notes	3/5/07	
*10		Answer section 9.1 section review questions, practice problems and math skills <b>OR</b> Concept Review Worksheet: "What Is Radioactivity?"	3/6/07	
*10		Read section 9.2 & outline notes. Turn in your notes <b>OR</b> Listen to lecture, participate & take notes on 3/6/07. Turn in your notes	3/6/07	
*10		Answer section 9.2 section review questions, practice problems and math skills <b>OR</b> Concept Review Worksheet: "Nuclear Fission and Fusion"	3/7/07	

*10		Read section 9.3 & outline notes. Turn in your notes <b>OR</b> Listen to lecture, participate & take notes on 3/7/07. Turn in your notes	3/7/07	
*10		Answer section 9.3 section review questions, practice problems and math skills <b>OR</b> Concept Review Worksheet: "Nuclear Radiation Today"	3/8/07	
*10		Chapter 9 Review (p.308-309) #1-26 <b>OR</b> Chapter Test A Worksheet: Chapter 9, "Nuclear Changes"	3/8/07	

## **b layer activities:**

Students choose 1 ONLY (10 points): You must complete 10 points in order to receive a "B", and to advance to the A-Layer activities.

Points possible	Points earned	Assignment description	Date Due	Teacher initial
10		Research: Investigate how Carbon-14 dating was used to date the Shroud of Turin. Submit a one-page paper with a bibliography.	3/9/07	
10		Research: Find out the average level of radiation exposure in this area, the highest and lowest levels in the United States. Create a bar graph that illustrates these comparisons. (Remember to use the same units).	3/9/07	

## **a layer activities:**

Students choose 1 ONLY (10 points): You must complete 10 points in order to receive an "A".

Points possible	Points earned	Assignment description	Date Due	Teacher initial
10		Research: Research RAFT-Nuclear Power Plants (See me for this activity).	3/9/07	
10		Research: Research medical uses of nuclear radiation (MRI, CT scanning, PET, ultrasounds, radiotherapy, etc.). Choose one and write a one-page paper summarizing your findings. Include a bibliography AND illustrations or pictures of the medical use.	3/9/07	
10		Illustrating: Illustrate on ONE poster both nuclear fission AND nuclear fusion. Be sure to label and use radioactive isotopes correctly. BE CREATIVE!	3/9/07	

You need 70 points for a "C" in this unit. (You must complete required assignments)

You need 80 points for a "B" in this unit. (You must complete required assignments)

You need 90 points for an "A" in this unit. (You must complete required assignments)

There **IS NOT** a written test for this unit. These activities will be used for your test grade for this unit.