



**Instructor:** Cheryl Fredericks

**School:** Holy Family Academy in Bound Brook

**Lesson Title:** Radiation Personality Project

**Grades:** 7, 8, 9

**Subjects:** Science/Language Arts

**Objectives:** The project will:

- Help students identify radiation in everyday life.
- Help students identify either benefit or harm from everyday radiation exposure.
- Allow students to research a topic and write a narrative
- Allow students to act out or orally display their findings.

**Materials and Resources:** Student may use the following research materials and at least three different types of research are required.

- Internet sources
- Encyclopedias
- Journals
- Magazines
- Interviews with people
- Other library books

**The Research:**

- Students will identify a form of radiation that exists in everyday life and whether it is beneficial or harmful.
- Students will write a narrative that is between 1 and 2 pages long describing their exposure to radiation and either harm or benefit received from it.
- Students will demonstrate in their narrative a knowledge of the type of radiation and use proper terminology. (Background research)
- Student will include a bibliography.

**The Presentation:**

- Students may choose to read their presentation. Use of visual aids is encouraged.
- Students may choose to act out or dramatize their research using any appropriate props.

**Grading:**

- 10 points – Identification of radiation type by due date and bringing to class your three sources of research.
- 60 points – Paper
  - 20 points grammar and spelling
  - 10 points for bibliography with correct number of sources

- 10 points for neatness and having a cover and end sheet
- 10 points for following narrative format
- 10 points for using correct scientific information and correct terminology
- 30 points – Presentation
  - 10 points for use of props or visual aids
  - 10 points for speaking clearly, loudly, and maintaining eye contact with the audience
  - 10 points for maintaining composure during the presentation

Example:

A Day on the Ball Field  
By: Cheryl Fredericks

My name is Jane and I love to play baseball. Oh, I see you are looking at my arm in the sling, so I will share my story with you. I am a pitcher for my team. We had a championship game last night that was amazing. Every inning ended with another tie score. It was the bottom of the ninth and we were leading by only 1 run. I was on the mound with 2 outs and a full count. I send a wicked fast ball over the plate and “pow”, the batter hits a line drive. The ball is coming right at me and as I reach for it I’m struck in the right arm. The pain was unbearable. Well, needless to say I couldn’t finish the game. I spent the night at the Emergency Room.

After examining my arm the doctor told me that he thought an X-ray was necessary to see if my arm was broken. I’m so glad they can look inside my body so to speak and tell if anything is really wrong. When they took me to the X-ray room they explained that I had to be very still and wear a lead apron to protect my body. They also asked me a few questions. The X-ray technician explained everything and told me that it would be over in a millisecond. He was right, I was done in no time. As you can see my arm wasn’t broken and I just have to give it some time to heal. And I’m no worse for the wear after having my X-ray. Oh, the game you say. Well we lost the big game, but there’s always next year.