



**Instructor:** Howard Alpert (2003 Science Teacher Workshop participant)

**School District:** Haworth

**Lesson Title:** Radioactivity Activity, A web research project

**Grades:** 8,9

**Subjects:** Science

**Overview:** This web research project is meant to be created as a web page to be downloaded to each student's private page in a school district. At the present time it is created in PowerPoint with links embedded for the student to follow. By reading the individual slides and following the links, students will answer a series of questions on radioactivity and radiation.

This unit is intended to be used in the opening phases of a unit on radiation. It includes radiation (both ionizing and non-ionizing), structure of the atom, natural and man made radiation etc.

**NOTE:** This lesson is meant to give students an overview of the main topics in radioactivity. It is to be followed by detailed lessons covering transmutation and atomic decay. Additional details regarding the division of protons into smaller quarks will be covered upon completion of this activity.

While the unit will be described and previewed during class time, it is intended to be completed during the students' time in the computer lab.

The work product will be a typewritten answer sheet in response to the various questions.

Assessment will be based upon a point system for each question.