Healing Through The Arts®
Where those who are healing find strength, hope and inspiration through the arts.

Science, Lesson 1 – *Cancer through the years*

Lesson goal – To encourage more creative thinking strategies.

Target students – Chemistry students 10 grade and higher

Learning Objective – Students will research scientists who have contributed success in the cancer world.

Outcome – Students will produce a timeline of scientists' discoveries towards cancer.

Standards – Science as Inquiry Standard A – understanding of scientific concepts

Materials / Resources – The following resources will be required for this lesson:

- Internet access

Description of Lesson (one to two 90 – minute blocks or two to four 45 – minute classes)

1. Student should have internet access.
2. Power point, photo story, or movie maker.

Resources:

- Marie Curry Biography. Website http://nobelprize.org/nobel_prizes/physics/laureates/1903/marie-curie-bio.html
- Marie Curry Biography. Website http://nobelprize.org/nobel_prizes/physics/articles/curie/
- Gertrude Elion Lecture. Website http://www.nobelprize.org/nobel_prizes/medicine/laureates/1988/elion-lecture.html
- Chromosome Abnormalities and Cancer Cytogenetics-879 Website http://www.nature.com/scitable/topicpage/chromosome-abnormalities-and-cancer-cytogenetics-879

Description of Lesson (1-2 Weeks):

1. Have students research many scientists who have been dedicated to cancer – from Marie Curie and Gertude Elion to Peter Nowell and David Hungerford using the internet.

2. Students work together to form a timeline of events that have occurred throughout the years.

3. Students produce a power point, photo story, or movie displaying the historical timeframe.

Lower Level – produce a poster or power point of timeline and break up into small groups

Academic Level – produce a power point or photo story and depending on class size can work in small groups or a class as a whole

Honors Level – produce a movie either using movie maker or have the students act out the events live and record it either in small groups or as a class as a whole

Example Rubric:

Poster Rubric

What	Points Possible	Points Possible	Points Possible
Information (timeline, brief facts)	0	5	10
Visual (Letter size, font, organization)	0	5	10
Creativity	0	5	10
			TOTAL 30

Power Point / Movie Rubric

What	Points Possible	Points Possible	Points Possible
Information (more detailed facts, explanations)	0	5	10
Visual (word size, font, organization)	0	5	10
Presentation / Knowledge of Info	0	5	10
Works Cited (3, 1 must be a book)	0	2.5	5
			TOTAL 35