

Name:

Date:

Class:

Student Rubric

Competent:

1. Create an Arduino Geiger counter to measure background radiation.
2. When finished, ask your teacher to upload the code so that the Arduino can give you a read out of the sensor.
3. Place your Geiger counter in different locations at your school and record data for 10-15 minutes.
4. Draft a Radiation Report that includes the following:
 - a. Background research (use answers from reading check)
 - b. Question
 - c. Hypothesis
 - d. Methods
 - e. Graph
 - f. Analysis in CER paragraph format that states whether your hypothesis was supported or rejected, with justification using numerical evidence
 - g. A discussion that includes improvements and further research ideas

Mastery:

5. Design a poster that could be shared on campus that teaches the community about the background radiation at different locations at school and the health effects of nuclear radiation. Include the strengths and limitations of the Geiger counter.