



**Video Title:** Crowdsourcing Science: Monitoring Nuclear Radiation

**Activity Vocabulary:** Define each word and then use it in a sentence.

- Nuclear Radiation:
- Database:
- Soil samples:

**Reflection Questions:**

- *Why is nuclear radiation a threat to our society and environment?*
- *How can everyday citizens be a part of this project to help research the effects of nuclear radiation?*
- *The goal of this project is to “make nuclear data completely open, public and democratized.” Why is this level of transparency desired and why is it important?*
- *Professor King states in the video that we are able to solve problems such as nuclear radiation if: “A, we understand our problems, and B, we have a community working together.” Why is collective action and teamwork crucial to solving large scale problems such as nuclear radiation?*
- *Were you aware of the threat that nuclear radiation poses? Do you think that this technology will be useful in identifying the problem and working towards a solution? Why or why not?*
- *What are other areas that this collective database technology could be utilized with?*

## Answer Sheet:

**Video Title:** Crowdsourcing Science: Monitoring Nuclear Radiation

**Activity Vocabulary:** Define each word and then use it in a sentence.

- Nuclear Radiation: **energy given off by all radioactive elements when they break down into more stable atoms**
- Database: **A structured set of data held in a computer, especially one that is accessible in various ways**
- Soil samples: **soil sampling is the process of taking a small sample of soil, which is then sent to a lab to determine the nutrient content**

### Reflection Questions:

- *Why is nuclear radiation a threat to our society and environment?*
  - *It can affect the soil and anything around us all without our knowledge*
- *How can everyday citizens be a part of this project to help research the effects of nuclear radiation?*
  - *They can gather and submit soil samples from their backyard*
- *The goal of this project is to “make nuclear data completely open, public and democratized.” Why is this level of transparency desired and why is it important?*
  - *Answers may vary*
- *Professor King states in the video that we are able to solve problems such as nuclear radiation if: “A, we understand our problems, and B, we have a community working together.” Why is collective action and teamwork crucial to solving large scale problems such as nuclear radiation?*
  - *Answers may vary*
- *Were you aware of the threat that nuclear radiation poses? Do you think that this technology will be useful in identifying the problem and working towards a solution? Why or why not?*
  - *Answers may vary*
- *What are other areas that this collective database technology could be utilized with?*
  - *Answers may vary*