

Name: _____ Date: _____ Class: _____

Nuclear Power Plant Virtual Field Trip Handout

Site 1: Let's Learn the Basics at <https://www.learnwithrichie.com/ks3/about-nuclear-energy>

1. List the steps of creating electricity using a steam turbine.
2. Read the "What is nuclear fission?" section. What is a chain reaction?
3. Why is uranium good in making electricity?
4. Describe how to make electricity from uranium.
5. List the steps of uranium enrichment.

Site 2: Let's Tour a Plant at <http://www.energytrendsinsider.com/2010/07/01/a-tour-inside-vermont-yankee-nuclear-power-plant/> (Vermont Yankee Nuclear Power Plant)

6. What kind of security exists in nuclear power plants?
7. What is a scheduled outage period?

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8. Define: *spent fuel pool*

9. Watch the **video**. What strikes you?

10. How long will the materials in dry storage be radioactive?

11. How many gallons of water does the plant use every minute?

12. What else did you learn that you found interesting?

Site 3: Let's Identify Some Major Concepts at https://en.wikipedia.org/wiki/Nuclear_power_plant and https://en.wikipedia.org/wiki/Nuclear_power

13. Define: containment

14. Identify some debate issues surrounding nuclear power: pros and cons.

15. Describe something you found interesting about the **history** or **future** of nuclear power: