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DAVIS-BESSE ATOMIC ENERGY CAMPOREE

Guidelines and Prerequisites



All of us at the Davis-Besse Nuclear Power Station are excited about hosting this program and we hope you are excited about attending.

To process the large number of Scouts expected, each Troop is asked to ensure that all Scouts have met the following prerequisites.

It is recommended that each Scout has a general overview of the Nuclear Science Merit Badge pamphlet to have better interactions/discussions with our facilitators.

The following prerequisites will need to be covered during Troop meetings prior to the camporee to ensure completion of the merit badge at the camporee:

- 1. Read and be familiar with the Nuclear Science Merit Badge pamphlet. (Have the scouts bring this pamphlet with them to the Camporee)
- 2. Ensure the scouts are familiar with Requirements 1b, 1c, 1d, 1e, 2a, 3b, 4c, 5a, 6b, 7 and 8. *These requirements will be covered at the Camporee*.
- 3. *Complete requirement 1a*: Explain radiation and the difference between ionizing and non-ionizing radiation.

4. Complete requirement 2b:

- Choose an element from the periodic table. Construct 3-D models for the atoms of three isotopes of this element, showing neutrons, protons, and electrons.
- Write down the isotope notation for each model including the atomic and mass numbers.
- In a separate model or diagram, explain or show how quarks make up protons and neutrons.

5. Complete requirements 4a <u>OR</u> 4b:

- a. Build an electroscope. Show how it works. Place a radiation source inside and explain the effect it causes.
- b. Make a cloud chamber. Show how it can be used to see the tracks caused by radiation. Explain what is happening.

A Scouter from your troop will be responsible for checking completion of these requirements prior to the Camporee.

If you have any further questions regarding the event, please feel free to contact Tim Rudolph at (419) 356-5210 or email supersierragt@gmail.com

NUCLEAR SCIENCE MERIT BADGE REQUIREMENTS

The following Scouts have completed requirements 1a, 2b, 4a or 4b for the Nuclear Science Merit Badge prior to attending the Davis-Besse Atomic Energy Camporee.

Name	Rank	Age	Completed 4a or 4b	
Bring this completed form with you to the Camporee.				
Troop Signature				
	Scoutmaster Name (printed)			