

Scout Name: _____ **Troop Number:** _____

1. (Requirement 3)

Choose five individuals important to the field of atomic energy and nuclear science and explain each person's contribution:

Individual: _____ Contribution: _____

Individual: _____ Contribution: _____

Individual: _____ Contribution: _____

Individual: _____ Contribution: _____

Individual: _____ Contribution: _____

2. (Requirement 2)

Tell the meaning of the following:

ALARA: _____

Alpha Particle: _____

Atom: _____

Background Radiation: _____

Beta Particle: _____

Contamination: _____

Curie and Becquerel: _____

Gamma Ray: _____

Scout Name: _____ **Troop Number:** _____

Half-life: _____

Ionization: _____

Quark: _____

Isotope: _____

Neutron: _____

Nuclear Energy: _____

Nuclear Reactor: _____

Particle Accelerator: _____

Rad and Gray: _____

Radiation: _____

Radioactivity: _____

Radon: _____

Rem and Sievert: _____

X-ray: _____

3. (Requirement 6b)

Find out how many nuclear power plants (i.e., nuclear power reactors – two reactors at one site counts as two power plants) exist in the United States: _____

Locate the one nearest to your home: _____

Find out what percentage of electricity in the United States is generated by nuclear power plants, by coal, and by gas:

Nuclear power plants: _____

Coal: _____

Gas: _____

Optional:

When was the first nuclear power plant built? _____ The last? _____

Which state has the most nuclear power plants? _____

Which state gets the largest percentage of its electricity from nuclear plants? _____