

Observation & Discovery



Periodic Hall

1. Circle the name of element number 92. Plutonium Uranium Polonium
2. Circle the symbol of the element that makes bones strong. Ca Pu Ra

Pioneers of the Atom

1. Circle the photo of the famous woman scientist who discovered the elements polonium and radium.



Marie Skłodowska Curie

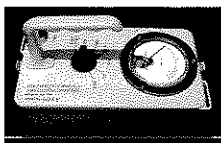


Lise Meitner

2. Write Albert Einstein's famous equation _____

Radiation 101

1. The Civil Defense survey meter measures radiation levels for a Coleman lantern and a Fiestaware salt shaker. Circle the object that has the higher level of radioactivity.



Civil Defense survey meter

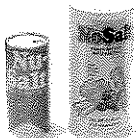


Coleman Lantern



Fiestaware

2. Circle the consumer items, seen in the exhibit case, that are naturally radioactive.



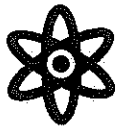
Nuclear Medicine

1. A radioactive isotope has been injected into a patient. Name the type of camera that captures and forms images from the radiation emitted. _____
2. What color is the surgeon's glove that is a protection from radiation when treating a patient? _____ What caused the color? _____

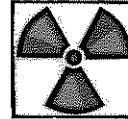
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Atomic Culture

1. Circle the symbol which represents an atom on the items in this exhibit.



2. Circle the symbol for "radioactive" from the lunch box in this exhibit.



3. Name the superhero who trained his x-ray vision on crime in the 1930's

Batman Spiderman Superman Superboy

Energy Encounter

1. Circle 3 renewable energy choices that can supply electricity for our homes.

Solar Coal Uranium Wind Biomass Hydro Power Gas Geothermal

2. Circle the name of the French Nuclear Reactor model.

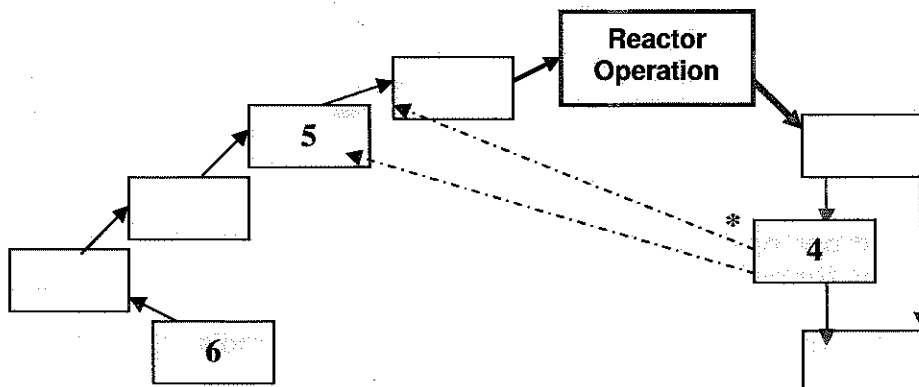
Obninsk Borax II Super Phenix

3. What is the name of the first merchant ship powered by a nuclear reactor? _____

4. The yellow ore cart held _____ mined from the ground in the Four Corners region by Navajo miners.

5. The **nuclear fuel cycle** is the process required to produce electricity from uranium in nuclear power reactors. Complete the nuclear fuel cycle by writing the correct number in the yellow boxes.

- 1) Final disposal of used fuel 2) Fuel fabrication 3) Milling 4) Spent fuel reprocessing
 5) Enrichment 6) Mining 7) Conversion 8) Temporary storage of used fuel

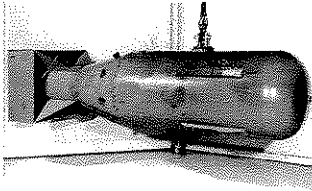


*Spent fuel reprocessing is omitted from the cycle in most countries including the United States.

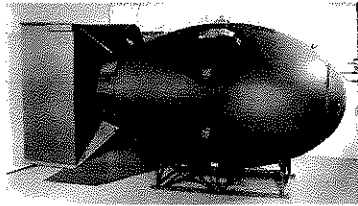
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Manhattan Project

1. Circle the name of the town in New Mexico where scientists developed the first atomic bomb:
Trinity Los Alamos Oak Ridge Hanford
2. Who was the scientific director of the Manhattan Project at Los Alamos? _____
3. Circle the device tested at the Trinity Site in Southern New Mexico on July 16, 1945.



Little Boy



Fat Man

4. How many stars does the flag that flew at Trinity test site have? _____ What two states were later added? _____ and _____.
5. What did Sadako Sasaki, a Young Hiroshima Victim, make that became a



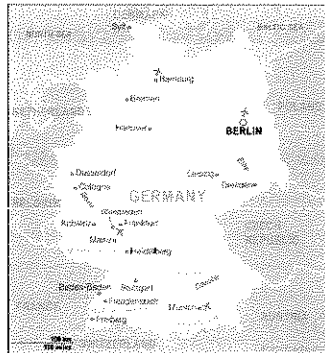
Symbol of International Peace _____

WWII

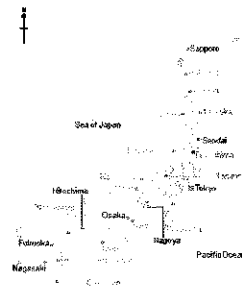
1. Circle the country the United States most feared was building an atomic bomb.



Soviet Union



Germany



Japan

2. Circle the countries that had projects to build an atomic bomb during WWII.

Canada Soviet Union USA Japan Germany United Kingdom

3. The decision to drop the atomic bomb was made by which president?

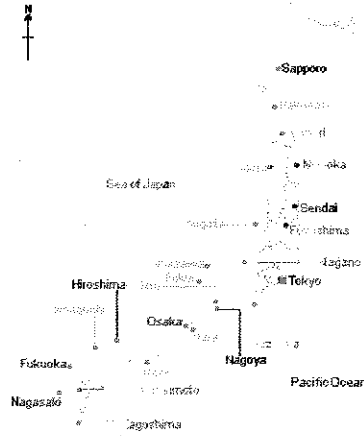
Harry S. Truman Franklin Delano Roosevelt

4. What are the names of the B-29 airplanes that carried the bombs?

_____ and _____

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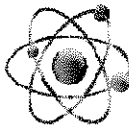
5. WWII ended when the United States became the only country to use nuclear weapons against another nation, during the atomic bombings of what two cities? **Circle the cities on the map of Japan.**



For reference only. Map is not up to scale

Cold War

1. Circle the symbol seen in the fallout shelter.



2. In 1966, the two B28 bombs on display were involved in an accident over Palomares, Spain.

What is the code name for an accident that involves nuclear weapons? _____

Heritage Park

1. Outside are different airplanes on display. Draw a line from the airplane name to the airplane type.



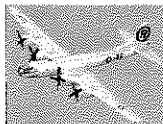
B-52

Fighter



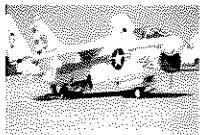
F-105

Bomber



B-29

Attack



A-7

Cargo