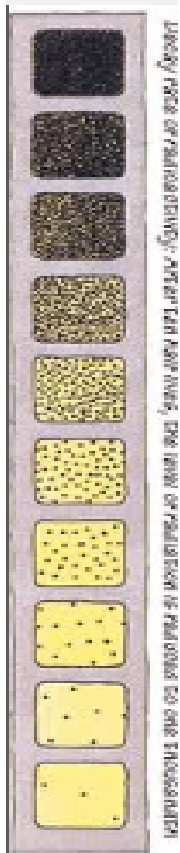Question: How long will it take for the soil around the Fukushima Nuclear Power Plant

to be safe to grow food in again?

Hypothosis: _____

Understanding: What is half-life?

Half-life explains how long it takes for half of something to decay.

Procedure: Each time you shake the box you create 1 half-life.

The half-life of Uranium is 4.9 X 10^9 years

Write that amount out in numbers _____

# of Half-Life's (shakes)	# of atoms that are URANIUM (heads up)	# of atoms that are LEAD (tails up)	# of years that have passed	% of Uranium decayed
0	100	0	0	0%

1. How many years will pass until it is safe to grow food in the soil in Fukushima Japan?

2. As the amount of Uranium decreases in the soil, what happens to the amount of lead in the soil?

3. If there is a change in the weather patterns on Earth, will the half- life of Uranium remain the same or change?

GRAPH THE AMOUNT OF URANIUM ATOMS AND TIME