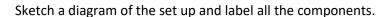
Name:	I worked with:

Radioactive Detection with Distance Lab

Purpose: Determine the relationship between distance from a radioactive source and the number of decays detected.





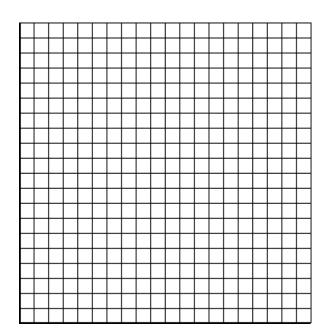
Open up the program. http://www.thephysicsaviary.com/Physics/Programs/Labs/RadiationDetectionLab/

Set the radioactive source to Radium 226.

Count the number of decays that you can detect at 10 different distances over a 30 second interval. Make sure you reset your counter after each shift in distance. Graph decays/s to distance in meters.

Distance to decays - Ra-226

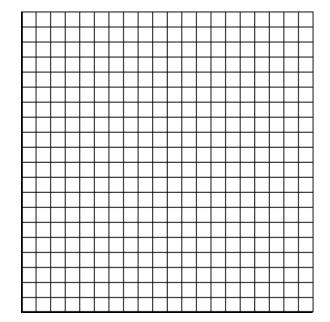
distance	decays in 30s	decays/s



Write an equation for the graph:

Distance to decays – Po-210

distance	decays in 30s	decays/s



Write an equation for the graph:

Write a CER about distance to decay count:

Write a CER about the 2 different isotopes in terms of radioactive activity. Include which substance would be more dangerous to humans.