Inquiry into Radioactivity

Activity 1.22

Name:

Using the Official Method

You just discussed a method of deciding whether two averages of radiation counts can be explained by natural variation, or whether the difference between them is due to something else. You will apply it now.

Equipment: Two types of salt, geiger counter and stand, cups for salts

Measuring radiation from salt

Your instructor will give you a sample of either regular table salt (NaCl), or potassium chloride (KCl) or light salt which is half NaCl and half KCl. Gently put the detector end of the geiger counter into the pile of salt and collect data for 10 minutes (1 minute per sample).

When you have data, read the statistics and copy and paste the graph here:

Write down the a room in the	average and st.dev. you got science building.	for your salt and the average & st.dev. that we have	accepted for
Show how to do	the "Official Method" calc	ulations to compare your reading to the average roo	m reading.
Did you find a completeness		wn how you compare the readings (just do this for pr	ractice and
Once other grou	ips finish, put their data into	this table:	
		Readings (Ave ± st.dev.)	
Regu	lar table salt (NaCl)		
Gosh room	en College SC basement		
Potas	sium chloride (KCl)		
5. Is KCl radioa	ctive? What about table sal	t?	