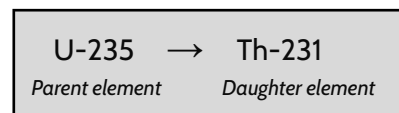
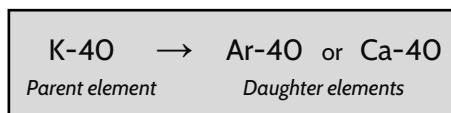
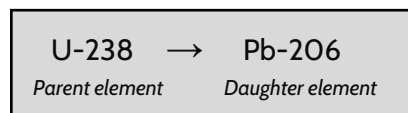


Name: \_\_\_\_\_

Date: \_\_\_\_\_

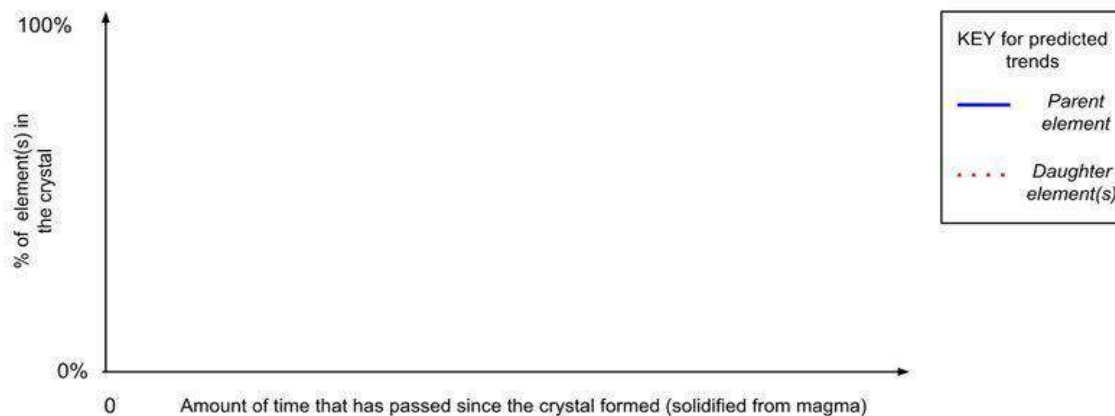
## Predicting Composition Trends

The 3 boxes below summarize 3 parent elements that undergo radioactive decay, and the daughter elements they turn into over time. Circle **1 box** to focus on for your additional predictions.



### Prediction 1:

- Draw a solid line below to show the predicted trend for the % of parent element found in a crystal over time.
- Draw a dotted line below to show the predicted trend for the % of daughter element(s) found in a crystal over time.



**Prediction 2:** If you sampled crystals of a different size, would the trends you drew in the graph above change, or would they remain the same? Why?

**Prediction 3:** Put a star next to one of the 2 boxes you did not circle above. If you sampled crystals that started out with this element in them when they first formed, would the trends you drew in the graph above change, or would they remain the same? Why?