Special Topics in Geology **NAME** _____

ABSOLUTE DATING Worksheet

DIRECTIONS:

- Go to danling.com and click on Earthling | S.T. Geology
- Under UNIT 3, click the link for "*Absolute Dating Techniques*"

1. List two modern techniques that have greatly improved the validity and accuracy of radiometric dating.

2. Why are ice cores considered an incremental dating technique?

3. Ice cores provide a record of greenhouse gases going back about one million years. Name three greenhouse gases present in ice cores.

4. For what time frame is dendrochronology useful?

5. What incremental dating technique has been used to map ancient changes in the extent of arctic permafrost?

6. What field conditions are necessary when searching for ceramic materials to date with thermal remnant magnetic techniques?

7. What European technique is used for incremental dating, which also provides data on climate and environmental conditions?