## **Supplemental Material**

CBE—Life Sciences Education Jaimes et al.

## inlinPlease respond to each of the following questions to the best of your ability.

- A. Imagine you had a time machine and were able to travel back to the moment when the Earth was formed (EARTH FORMS). Please write on the timeline **the time in years before today** when you think the Earth first formed.
- B. Write the following words on the timeline as indicated. Please order the words according to your own knowledge and imagination.
  - 1. Write **FIRST LIFE** when you think life first existed. Please **indicate the time in years before today**.
  - 2. Write **MAN** when you think humans first existed. Please **indicate the time in years before today**.
  - 3. Write **DINO** when you think dinosaurs first existed. Please **indicate the time in years before today**.
  - 4. Do dinosaurs live on land today? Write **NO DINO** anywhere on the timeline when you think dinosaurs stopped living on land and **indicate the time in years before today**. **Do not write anything** if you think dinosaurs live on land today.

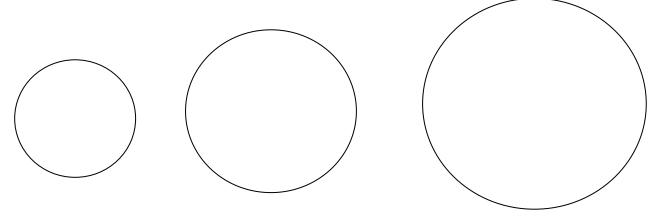
**TODAY** 

**EARTH FORMS** 

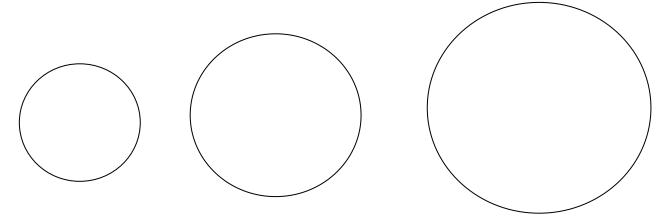
The image to the right represents the Earth TODAY.



1. Think back in time to when you said the dinosaurs first appeared on Earth. What do you think the Earth and continents looked like then? Do you think the Earth was the same size as it is today, or has it shrunken or expanded? Choose the appropriate circle below and draw what you think the Earth's continents looked like when dinosaurs first appeared on Earth.



2. Think into the future the same length of time you think passed between the first appearance of dinosaurs and today. What do you think the Earth and continents will look like then? Do you think the Earth will be the same size as it is today, or will it shrink or expand? Choose the appropriate circle below and draw what you think the Earth's continents will look like in this future.



3. Why do you think Earth's size changes or remains the same over time?

4. Why do you think Earth's surface changes or remains the same over time?

Please provide additional information about yourself by answering the questions below.

Please check all science courses you con CHOOSE ALL THAT APPLY □ Biology □ AP Biology □ Chemistry □ AP Chemistry □ Physics □ AP Physics □ Earth Science □ Other		h school (grades 9-12):	
Your Home U.S. 5-digit ZIP CODE:	OR You	OR Your Home Country:	
Your GENDER: ☐ Male ☐ Female	☐ Transgender	☐ Other	
Do you self-identify as LGBTQIA?	☐ Yes	□ No	
Your Ethnicity: CHOOSE ALL THAT APPLY  ☐ American Indian/Native American ☐ Asian/Asian American ☐ Black/African/African American ☐ Latino(a)/Hispanic ☐ Native Hawaiian/Pacific Islander ☐ White/Caucasian ☐ Other	Do you self-identify as having any of the following disabilities?  CHOOSE ALL THAT APPLY  ☐ I do not identify as having any disability ☐ Blind/Visual disability ☐ Deaf/Hard of hearing/Hearing disability ☐ Physical/Orthopedic disability ☐ Learning/Cognitive disability ☐ Vocal/Speech disability ☐ Other		

Would you like to tell us anything else about yourself?