

Components of Activity

Earth 13& Earth 14

WHAT THIS ACTIVITY IS ABOUT: This activity is about cross-cutting concepts in science.

Crosscutting Concepts represent common themes that span across science disciplines. These concepts identify universal properties and processes found in all the science disciplines.

INSTRUCTIONS:

1. Briefly scan through each paragraph before starting.

2. Carefully read the 1st paragraph. Underline and/or circle key ideas and words.

Circle either YES or NO for each of the cross-cutting concepts on that page that apply.

3. Carefully read the 2nd paragraph. Underline and/or circle key ideas and words.

Circle either YES or NO for each of the cross-cutting concepts on that page that apply

4. Return to the 1st paragraph. Write a brief response for each cross cutting concept marked YES.

At bottom of page, circle the number of the cross-cutting concept which BEST fits the paragraph.

5. Return to the 2nd paragraph. Write a brief response for each cross cutting concept marked YES.

At bottom of page, circle the number of the cross-cutting concept which BEST fits the paragraph.

6. At the bottom of each page, describe WHY you selected that cross-cutting concept as the BEST fit.

7. Complete a VENN diagram on the back page for the two topic paragraphs.

8. Write a 50 word essay. Summarizing your discoveries, ideas, and conclusions about the paragraphs.

Earth 13 Connections Across Content

Honeycutt Science emphasizes opportunities for “cross-curriculum” – and connections across content. Earth science intersects with physics, chemistry and biology – as well as other disciplines. A partial list of these intersections is as follows: physical geography (geography); engineering geology (engineering); geophysics (physics); soil science (agriculture); ecology (life science); hydrology (city planning); atmospheric chemistry (chemistry); and atmospheric physics (physics). (topic) Does this paragraph mention, describe, imply, refer to, or convey:

1. (YES) (NO) any **patterns**?
in what way >> _____

2. (YES) (NO) any **cause and effect**?
in what way >> _____

3. (YES) (NO) a **quantity, numeric scale, or proportion**?
in what way >> _____

4. (YES) (NO) a **system, or organized structure**?
in what way >> _____

5. (YES) (NO) about **energy or matter**? (*Especially flows, cycles, and conservation*)?
in what way >> _____

6. (YES) (NO) the **structure or function** of something?
in what way >> _____

7. (YES) (NO) concepts of **stability and/or change**?
in what way >> _____

Circle the number which BEST represents the paragraph? (1) (2) (3) (4) (5) (6) (7).
Why did you choose this number? >> _____

Earth 14 Map Interpretation

Broadly, map analysis is a study is made regarding map types (which could include geologic maps, isopach maps, contour lines etc.), and the unique physical qualities of a map such as scale, title, and legend. It is also a ways of decoding the message and symbols of map and placing it within its proper context. A map is an image of an area, usually of the Earth or part of the Earth. A map is different from an aerial photograph because it includes interpretation. The word “map” can also be used to talk about a chart or drawing that shows relationships between ideas, people, events, or anything else you can think about. People who make maps are cartographers. (topic) Does this paragraph mention, describe, imply, refer to, or convey:

1. (YES) (NO) any **patterns**?
in what way >> _____

2. (YES) (NO) any **cause and effect**?
in what way >> _____

3. (YES) (NO) a **quantity, numeric scale, or proportion**?
in what way >> _____

4. (YES) (NO) a **system, or organized structure**?
in what way >> _____

5. (YES) (NO) about **energy or matter**? (*Especially flows, cycles, and conservation*)?
in what way >> _____

6. (YES) (NO) the **structure or function** of something?
in what way >> _____

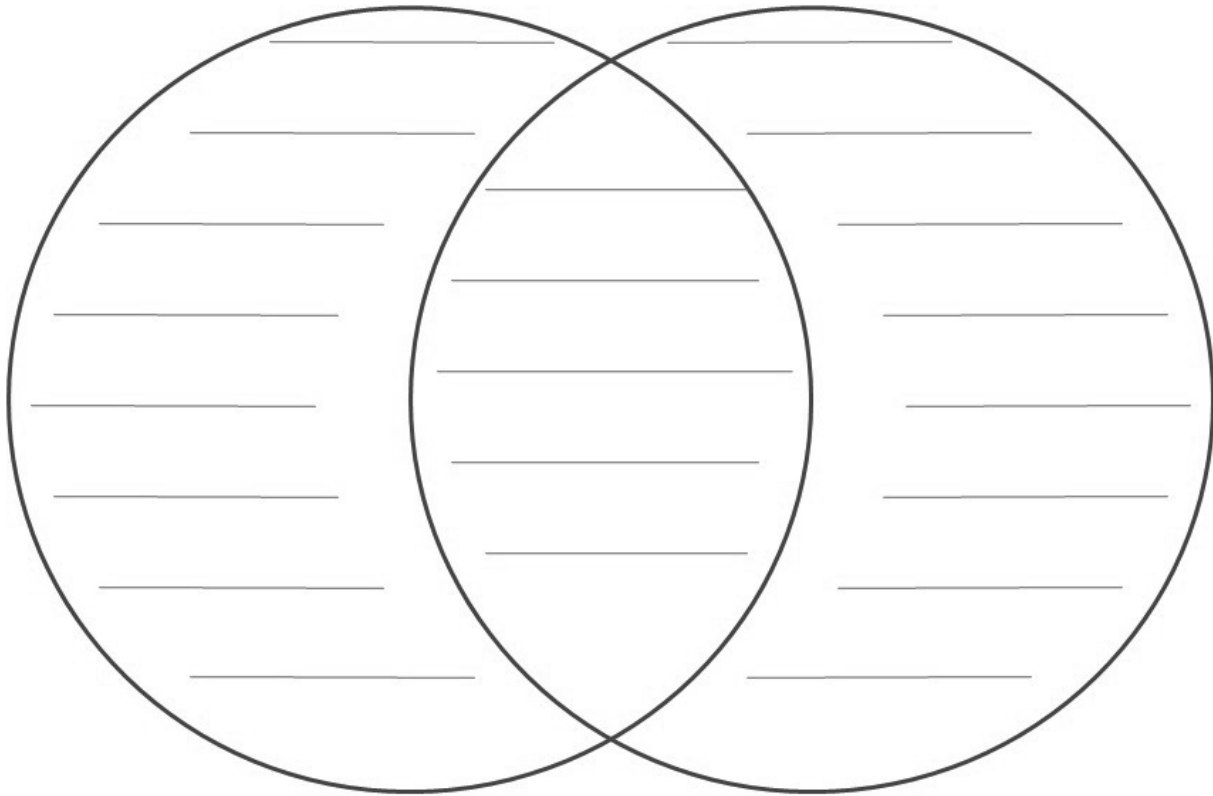
7. (YES) (NO) concepts of **stability and/or change**?
in what way >> _____

Circle the number which **BEST** represents the paragraph? (1) (2) (3) (4) (5) (6) (7).

Why did you choose this number? >> _____

Connections Across Content

Map Interpretation



Write a 50 Word Essay about the topic paragraphs here ...

A series of ten horizontal lines provided for writing a 50-word essay.