| • | _ | | of the continents looked like so found that similar fossils were | | · · |
|-----------------|----------------------------|-------------------------|--|-------------------------|--------------------------|
| animals were no | ot long distance swim | mers, so how did they | get from one continent to the | e other? He found s | similar plant fossils as |
| • | | | reds of miles away from each | | |
| - | | | . Another scientific phenomenate for the scientific phenomenate is a scientific phenomenate in the scientific phenomenate in the scientific phenomenate is a scientific phenomenate in the | | |
| - | | - | ough for glaciers to have ex he called Pangaea , which r | | |
| | | - | al Drift. His idea was not a | | |
| | apara rio canca inc | , pourosio, commissio | | prior by most god | |
| Some of the fos | sils he found are liste | d below. Use the inter | net to fill out the following ta | ble. | |
| Fassil Name | Time period in which | Which continents were | Describe the current climate | | e prehistoric climate |
| Fossil Name | | the fossils found on? | these fossils were found. | where these to live. | fossil organisms used |
| | | | | | |
| Cynognathus | | | | | |
| | | | | | |
| | | | | | |
| Mesosaurus | | | | | |
| | | | | | |
| Lystrosaurus | | | | | |
| Lystrosaurus | | | | | |
| | | | \bigcirc | | |
| Glossopteris | | | | | |
| | | | | | |
| | • | | | <u>.</u> | |
| | | | s and India. Cut those pictu | | _ |
| | | | e landmasses. Now using the | | |
| | | | digital device take a picture ice, then glue or tape Pang a | | |
| mat image with | your teacher. If you t | don thave a digital dev | ice, then glue of tape Fally | dea to the back of the | iis paper. |
| 1. Why wo | ould understanding | the current climate a | nd the prehistoric climate | of fossils be impor | rtant to the idea of |
| = | ntal drift? | | • | · | |
| | _ (| | | | |
| O A 41 | | The Alberta Harris | | | |
| 2. Are the | Tossii ages similar | to each other? How v | would any age discrepanc | ies de justified? | |
| | | | | | |
| 3. Why wo | ould finding out the | relative ages of the fo | ossils be important in help | ing provide evider | nce of the idea of |
| = | ntal drift2 | | | | |
| | | | | | |
| 4 1871 | | | uh4 | lal mod balo e lod - M | / |
| 4. What w | ouia de som e reasc | ons that scientists mig | ght come up with that wou | ia put noies into V | vegeners |

en putting Pangaea together you should have noticed that they don't fit perfectly. Why do you thing that

Continental Drift Activity

In 1912, Alfred Wegener, a German geophysicist and meteorologist, hypothesized that the continents used to be part of one

Name:



| Name: | |
|-------|--|
|-------|--|

Continental Drift Activity Answer Key

| Fossil Name | Time period in which the organism lived. | Which continents were the fossils found on? | Describe the current climates where these fossils were found. | Describe the prehistoric climate where these fossil organisms used to live. |
|--------------|--|---|---|---|
| Cynognathus | | | | |
| Mesosaurus | | | | |
| Lystrosaurus | | | | |
| Glossopteris | | | | |

| 1. W | hy would understanding the current climate and the prehistoric climate of fossils be important to the idea of |)t |
|------|---|----|
| CC | ntinental drift? | |

2. Are the fossil ages similar to each other? How would any age discrepancies be justified?

a.

- a.
- 3. Why would finding out the relative ages of the fossils be important in helping provide evidence of the idea of continental drift?
- 4. What would be some reasons that scientists might come up with that would put holes into Wegener's hypothesis?
 - a.
- 5. When putting Pangaea together you should have noticed that they don't fit perfectly. Why do you thing that might be the case?
 - a.



Teacher Reflection and Procedures

- I give this assignment before ever discussing with students what continental drift and pangaea are. This way they are better prepared for the discussion after the assignment.
- I let my students work in groups of 2 or 3. I find that groups of four were just too many.
- The 5 questions at the end are purely to get students thinking. We discuss these questions as a whole group after the assignment is completed.
- The table is filled out using the web to do the searches. The column about the prehistoric climate is there to get students think about some the of fossils that have been found in antarctica were warm blooded mammals so how did they survive down south like that?
- This activity can spill into another day.