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Natural World [5th grade]

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Canyon Ridge Elementary School (San Antonio, Tex.)

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Unit: The Natural World
Grade: 5th

Understandings

Students will understand that...

- *forces change land*
- *the same force can be both destructive and constructive*
- *you can learn the history of the earth by reading things like tree rings and sedimentary layers*

Essential Questions

1. What did Earth look like a billion years ago?
2. How do we see changes today?
3. What forces take a long time?
4. Do landforms affect people?
5. Should we protect our landforms?

Knowledge & Skill

(NEISD scope & sequence; TEKS; Core; etc.)

TEKS

5.11A - identify and observe actions that require time for changes to be measurable, including growth, erosion, dissolving, weathering, and flow.

5.11 B- draw conclusions about what happens before using data such as from tree growth rings and sedimentary rock sequences.

5.12 A - interpret how landforms are the result of a combination of constructive and destructive forces such as deposition of sediment and weathering.

Stage 2: Assessment Evidence

Performance Task:

*FOSS – setup a landform situation and choose a variable for the water and predict the landform changes that will occur. Then test the variable and analyze results.

* analyze a tree ring

Other evidence:

(quizzes, tests, academic prompts, etc.

note – these are usually included where appropriate in Stage 3 as well)

Stage 3: Learning Activities

1. TEKS Says and teacher guide activities (for NEISD employees only)
2. Warm up to Science Region 4 – TAKS objective 4
3. Science Notebook – throughout the year students will record and keep a scrapbook of notes, experiments, vocabulary, and learning activities.

4. Pangea – puzzle (worksheet) – KLRN/United Streaming video about Pangea
5. FOSS Experiments – shows how water affects landforms (weathering/erosion)
6. Bill Nye video on erosion and weathering
7. Teacher lab rotations – Station 1- Review geologic time and what layers tell us; Station 2- Earth’s layers – crust, mantle, and core; Station 3- Marshmallow pressure – how pressure affects glaciers; Station 4- Shaping of the Earth; Station 5- Formation of Mountains with towel folding and cooling apple; Station 6 – Movers, wind and water; Station 7 – Particles of Soil how sediment settles.
8. Powerpoint – Landform slides for North East employees only
9. FOSS – ERT (Everyone Read to) and Rivet
10. Concentration game of landform picture and vocabulary (for NE employees only)
11. TAKS games –
12. Shrinking Rocks activities
13. Create a poster/project that depicts and explains a specific force; present; and note taking during presentations. Forces – earthquake, tornado, hurricane, mudslide, landslide, glacier, volcano, and tsunami, river, wind