**Grade 8 Plate Tectonics**

## Assessment

For the assessment outlined below you will be allocated class time and IT support.

Using the map, cardboard, plasticine provided or any other maps or materials of your choice in consultation with the teacher, create an animation which:

- Shows the movement of at least 6 plates (3 pairs). The direction of movement is already indicated on the map provided)
- Indicates one example of mountain building , one of subduction and one of divergent plates
- Add your voice explaining what is happening
- Add at least three drawings and/or diagrams of your own to fully explain the plate movement and the landform formation
- Include a full bibliography

Assessment Criteria

(C)

i. present collected and transformed data in a visual and oral form
ii. interpret data and describe results using scientific reasoning

(D)

i. describe the ways in which science is applied and used to address a specific problem or issue

iii apply scientific language effectively

iv document the work of others and sources of information used

Due dates:

- Storyboard due
- Animation due

Marking Criteria

| Description (max. of 8 points for each criterion) | Grade |
|---|---|
| • Using an animation, shows the movement of at least 6 plates (C)<br>• Correctly indicates one example of mountain building , one of subduction and one of divergent plates (C)<br>• Voice explaining the events matches the animation. (D)<br>• At least three original drawings and/or diagrams and/or models explaining the events (C)<br>• Correct scientific language used throughout the animation (D)<br>• Complete, correct bibliography (D) | 15-16 |
| • Using an animation, shows the movement of at least 6 plates<br>• Indicates one example of mountain building , one of subduction and one of divergent plates<br>• Voice explaining the events matches the animation.<br>• At least two original drawings and/or diagrams and/or models explaining the events and one other from an external source<br>• Correct scientific language used throughout the animation<br>• Complete, correct bibliography | 13-14 |
| • Using an animation, shows the movement of at least 4 plates<br>• Indicates one example of mountain building , one of subduction and one of divergent plates<br>• Voice explaining the events matches the animation in most cases<br>• At least one original drawings and/or diagrams and/or models explaining the events and two more from an external source<br>• Correct scientific language used throughout the animation<br>• Complete bibliography | 11-12 |
| • Using an animation, shows the movement of at least 4 plates<br>• Indicates one example of mountain building or one of subduction or one of divergent plates<br>• Voice explaining the events matches the animation in most cases<br>• Three non-original drawings and/or diagrams and/or models explaining the events<br>• Correct scientific language used throughout the animation<br>• Complete bibliography | 9-10 |
| • Using an animation, shows the movement of at least 2 plates<br>• Indicates one example of mountain building or one of subduction or one of divergent plates<br>• Voice explaining the events describes what is in the animation<br>• Two non-original drawings and/or diagrams and/or models explaining the events<br>• Correct scientific language used throughout the animation | 7-8 |

Useful websites

http://science-class.net/archive/science-class/Geology/plate_tectonics.htm

http://msp.ehe.osu.edu/wiki/index.php/MSP:MiddleSchoolPortal/Plate_Tectonics:_Moving_Middle_School_Science

http://geology.com/teacher/plate-tectonics.shtml