GEOLOGY PROJECT

Procedure:

1. **GENERAL TOPIC** Read and fill out the Geology Project Notes for your general topic (ONLY) using the Earth Science textbook.

2. **SUBTOPIC** Divide up the Topic so that each individual person has a section to be responsible for the presentation and poster.

3. **POOL** your information with the information from the other group members to make sure you have done a thorough job of covering your General Topic.

4. **PREPARE A POSTER** to illustrate what you have learned. This should ALL Geology Project Notes information on your General Topic!! Include pictures and/or diagrams and color.

5. **PRESENTATION** Present your poster and information to the class. The group will present together, but each group member presents their own information.

6. **EXPERIMENT** choose a experiment from the list below and prepare an experimental design and procedure.

7. **RUN THE EXPERIMENT** Be sure to record the data during the experiment!

8. **PROJECT REPORT** Prepare a write-up including data table, graph and conclusion paragraph.

Topics:

I. **SOIL EROSION** (p. 138-143)
   The effect of ground cover on the amount of erosion.
   The effect of plowing method on the amount of erosion.

II. **MASS MOVEMENT** (p. 141-142)
    The effect of height of landslide on the amount of weathering.
    The effect of rock type on the amount of weathering.

III. **GROUNDWATER MOVEMENT** (p. 149 - 157)
    The effect of soil type on the permeability of soil.
    The effect of soil type of the porosity of soil.

IV. **GROUNDWATER FEATURES** (p. 159-163)
    The effect of acid types on the amount of weathering.
    The effect of length of time of size of stalactite.

V. **RUNNING WATER: EROSIONAL FEATURES** (p. 169-179)
    The effect of stream shape on the amount of erosion.
    The effect of stream slope on the amount of erosion.
    The effect of water pressure on the amount of erosion.
VI. **RUNNING WATER: DEPOSITIONAL FEATURES** (p. 181-185)
   - The effect of stream slope on width of delta.
   - The effect of water pressure on width of delta.

VII. **GLACIERS** (p. 191-205)
   - The effect of particle size on the amount of weathering (depth of scratches).
   - The effect of age of glacier (scrapping time) on the amount of weathering (depth of scratches).

VIII. **WIND AND DESERTS** (p. 211-214)
   - The effect of ground cover on the amount of erosion.
   - The effect of moisture on the amount of erosion.
   - The effect of wind speed on the amount of erosion.

IX. **MARINE** (p. 215-224)
   - The effect of wave strength on the amount of erosion.
   - The effect of wave height on the amount of erosion.

**Responsibilities:**

**The group will be responsible for:**
1. Notes on the General Topic on Geology Project Notes.
2. Presentation on the General Topic.
4. Preparing the Experiment's design and procedure.
5. Running the Experiment on your General Topic.

**Each individual is responsible for:**
1. Research on your Subtopic.
2. Talk about your Subtopic during the Presentation.
3. Prepare your part of the Poster illustrating your Subtopic.
4. Take Notes during the Presentations on the Geology Project Notes.
4. Write up the Experiment related to your General Topic.
GEOLOGY PROJECT
Name ____________________________ Block __

Scoring Guide
General Topic ____________________
Specific Topic _________________
Presentation/Poster Due Date _________
Experiment to be Run on ___________
Experiment Write Up Due Date________

(Highest score indicates an excellent job; middle score indicates average work; lowest score indicates information missing or not up to standards)

Geology Project Notes (30)
5-10-15 Group General Topic Filled out on assigned day
5-10-15 All parts filled in during Presentations

Group/Individual Poster (60)
5-10-15 Well organized (each student’s subtopic is present)
5-10-15 Contains important information
5-10-15 Includes appropriate diagrams / pictures
5-10-15 Very Neat (block letters, easy to read)

Group/Individual Presentation (45)
5-10-15 Well organized (information arranged so that it makes sense)
5-10-15 Every group member contributes about their Subtopic
5-10-15 Every group member has eye contact and can be heard

Individual Write-up of Experiment (60)
5-10-15 Experimental Design
5-10-15 Procedure
5-10-15 Data Table
5-10-15 Graph Table Results Sentence
5-10-15 Conclusion Paragraph

Student Time Use during Research, Working on Poster/Presentation, Running of Experiment/Clean Up (60)
5-10-15 Each individual uses time in class appropriately
5-10-15 Group works cooperatively and on task
5-10-15 Group follows safety procedures
5-10-15 Each individual uses quiet voices/doesn’t bother other groups
5-10-15 All group members help clean up (done well and quietly)

Total ________/255 points

Grade __________