**Sedimentary Rocks Unit Project** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk: \_\_\_

*Summative Assessment*

**Inquiry Question:** What features and properties define a sedimentary depositional environment?

**Your task**: to investigate a local/global depositional environment. (Individual or partner assignment)

* Choose a depositional environment you will investigate.
* Choose a local or global example of your depositional environment.
* Investigate sediments, rock types, and sedimentary structures.
* Tell the geologic story of your location!
* Communicate your findings in any format: *poster, powerpoint, film, song, diorama, etc.*

Your project must include the following:

1. **Sediment present**
	* **Grain Size**, **Rounding, and Sorting**  (Energy Level*and*Distance from Source)
2. **Sedimentary Rocks present**
3. **Sedimentary Structures present**
4. **Data from your local/global location** (Images and Maps)
5. **Geologic story of your Depositional Environment**
	1. **Weathering and Erosional PAST**
	2. **Depositional PRESENT**
	3. **Possible FUTURE**
6. **Reference List in APA format** *(full marks for in-text citation)*

You will have two classes to research your specific depositional environment. Record your sources in APA format.

**Sedimentary Depositional Environments** *(choose one*)

***Continental***

* Fluvial (rivers)
* Lacustrine (lakes)
* Paludal (swamps)
* Glacial (glaciers)
* Alluvial (alluvial fans)
* Aeolian (deserts)
* Talus/Scree Slopes
* Evaporates

***Coastal***

* Beaches
* Deltas
* Estuaries
* Lagoons

***Marine***

* Reefs
* Continental Shelf (shallow water)
* Continental Slope & Rise (deep water)
* Abyssal Plain

|  |  |
| --- | --- |
| **Your Depositional Environment:** |  |
| **Your Local/Global Location:** |  |

**Marking Rubric (**submit with your project**) /45**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Assessed Skills*** | **KNOWLEDGE****(Describing)** | **UNDERSTANDING (Explaining)** |  | **EVIDENCE OF RESEARCH** |
| **18 - 20** | * **Sediment** described extensively (Grain Size, Rounding, Sorting)
* Common **sedimentary rocks** are identified accurately and in detail.
* Common **sedimentary structures** are described in detail.
* Personal evidence documented accurately from your **local or global** **location** (photos, details, maps, sketches)
 | * Uses evidence from your location to accurately explain the **energy level** and **distance from source** of your depositional environment.
* Explains in detail the **Geologic Story** of your location (past, present, future) with appropriate connections, causes, and predictions.
 | **5** | * Sources are cited correctly
* Correct Reference list in **APA format**
* **In-text citations** included
 |
| **14 - 17** | * **Sediment** described extensively (Grain Size, Rounding, Sorting)
* Common **sedimentary rocks** are identified accurately and in detail.
* Common **sedimentary structures** are described in detail.
* Evidence documented accurately from your **local or global** **location** (photos, details, maps, sketches)
 | * Uses evidence from your location to attempt to explain the **energy level** and **distance from source** of your depositional environment.
* Explains the **Geologic Story** of your location (past, present, future) with some connections, causes, and predictions.
 | **4** | * Sources are cited mostly correctly
* Reference list in **APA format**
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| **11 - 13** | * **Sediment** described extensively (Grain Size, Rounding, Sorting)
* Common **sedimentary rocks** are identified accurately and in detail.
* Common **sedimentary structures** are described in detail.
* Evidence documented accurately from your **local** **or global location** (photos, details, maps, sketches)
 | * Attempts to use evidence from your location to explain either the **energy level** or the **distance from source** of your depositional environment.
* Attempts to explain the **Geologic Story** of your location (past, present, future) with limited understanding.
 | **3** | * Sources are cited
* Websites listed.
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| **0 - 10** | * Knowledge of the sedimentary geology of your location is not included.
 | * Understanding of the Geologic Story of your location was not included.
 | **2 - 0** | * Evidence of research and citation is not included.
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