**Yr. 8 Chocolate Bar Challenge**

**Making Persuasive Comparisons Between Chocolate Bars & The Rock Cycle**

**Task:**

Your job is to write a persuasive argument that can convince me (the teacher) that the chocolate bar of your choice is a good illustration of one type of rock that is produced from the rock cycle. You can refer to the exemplar to help guide you. You must include the following:

* **State** which class (type) of rock your chocolate bar most resembles – be as specific as you can with the name.
  + *Which major category of rock (igneous, metamorphic, sedimentary); and which specific type within that category.*
* **Explain** how this type of rock is created using your knowledge of the rock cycle. Include any time scales involved in its creation (how long to create/form?)
* Give at least four well thought out **similarities** in characteristics and qualities between this rock type and a type of chocolate bar. Clearly explain and justify in detail all of the ways in which they are similar to each other. \**You may wish to include diagrams in your assignment to help explain.*

Types of comparisons to avoid (due to low level, non-scientific):

* Price
* Taste or edibility
* Uses
* Give at least four well thought out **differences** in characteristics and qualities between them. Clearly explain and justify in detail all of the ways in which they are different to each other. \**You may wish to include diagrams in your assignment to help explain.*
* **Invent through imagination**, a chocolate bar that would be even more similar to your chosen rock type. Describe what it would look like, what it would be made of, its texture, etc.

How convincing and clear your persuasive argument is will determine whether you win the right to own the chocolate bar.

Length: MAX 1 A4 page

A good place to do some select and research a rock type is:

*http://geology.com/rocks/*

*\*\*Also you can begin by researching different examples of the three major types of rocks and then selecting one that you think could match a type of chocolate bar.*

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| **Criteria** | **Well Above** |
| **Identification** of chocolate bar and rock type | * Both rock and chocolate bar clearly stated. * A specific type is stated with proper geological name. * Indication of which of the 3 major categories it is part of * Use of scientific terms |
| **Explanation** of how your rock type is formed | * Highly detailed description of formation * Use geologic terms with explanation where needed * Clearly describes the timeframe required for this to be formed * Where this type is typically found |
| **Similarities** between rock type and chocolate bar | * At least 4 clear similarities explained. * Clear analysis of the rock to point out interesting and thoughtful **similarities** * The similarities are not silly or superficial\* |
| **Differences** between rock type and chocolate bar | * At least 4 clear differences explained. * Clear analysis of the rock to point out interesting and thoughtful **differences** * The differences are not silly or superficial\* |
| **Invention** of a new chocolate bar! | * A detailed description of the new bar * Includes a diagram with labels of what it would look like * A detailed list of the qualities of the chocolate bar that more closely matches your rock type * Creative and innovative thinking and ideas |

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**Success Criteria Guide**