**Highland High School**

**Expository Reading and Writing**

**Assignment Template**

**Title:**  Earth Science Standard 3ef, Volcanoes

**Text:** Glencoe: Earth Science, Geology, the Environment and the Universe ©2013

(alternative 2005 edition)

**Professional Learning Team:** \_\_\_Earth Science\_\_

**PLC Team Members: \_\_**Mike Coburn, Mudah Mele, Karen Blount \_\_\_

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| **Reading Rhetorically** |  |
| 1. **Prereading** – Developing vocabulary, Building and assessing background knowledge

**Vocabulary Strategies:**Concept mapCubing/Frayer ModelSelf-Assessment chartsSemantic MapsWebs, SpidersVocabulary notebooks/logsWord trees**Pre-reading Strategies:** QuickwritesSQP2RS | Preteach vocabulary:* Students fill out a self-assessment chart
* Students define and draw vocabulary words: lava, magma, Andesite, basalt, composite volcano, shield volcano, silica content, dissolved gases, viscosity,
 |
| 1. **Reading** – Chunking the text, Discussion of the text, Reflection, Questioning the text

**Reading Strategies**Annotating/Highlighting the textChunkingCornell notesDescriptive OutlineGraphic OrganizersPAPA SquaresQuestioningReciprocal TeachingRhetorical PrecisSay, Mean, MatterSelective Reading GuideSQP2RS | * Preview the text, read the titles of the sections and discuss the photos diagrams. (© 2013 has essential questions)
* Chunk the text into sections:

Pg 508 -509 (© 2005 pg 471-473,475)* Read aloud one section (blue/ red titles) at a time,
* Discuss
* Take Cornell notes in interactive notebook

Present lecture notes on magma formation and viscosity. Students annotate their notes,Extension: viscosity activity/ labPg 510 Read paragraph: types of magma and Basaltic magma (© 2005 pg 473, pg 474 paragraph on Basaltic magma) Pg 507 read paragraphs types of volcanoes and shield volcanoes (© 2005, pg 481, 482) * Discuss
* Take Cornell notes in interactive notebook

Present lecture on shield volcanoes, students annotate their notes, view video of Kilauea’s eruptionWrite summary of reading and lecture notesPg 510 andesitic and rhyolitic magma (© 2005 pg 474, 482,483)Pg 512-513 explosive eruptions (© 2005 pg 483,484)Pg 507 composite volcanoes(© 2005 pg 482)* Read aloud one section at a time,
* Discuss
* Take Cornell notes in interactive notebook

Present lecture on composite volcanoes, students annotate their notes, view video of Mount St Helen’s eruptionWrite summary of reading and lecture notesPg 500-504 volcanoes and plate tectonics(© 2005 pg 484-487)* Read aloud one section (blue or green title) at a time,
* Discuss
* Take Cornell notes in interactive notebook

Write summary of reading notesAlternative: add a lecture on volcanoes and plate tectonics. |
| 1. **Postreading** – Writing, Discussion, Reflection

**Prewriting Strategies:**BrainstormingClustering/WebbingDiscussingFreewritingOutliningQuestioningQuickwritesScanning**Writing Strategies:** PAPA SquaresRhetorical Essay PlannerSay, Mean, MatterSentence Frames | (see above – the cycle goes through 4 sections of text) |

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| **Connecting Reading to Writing**  |  |
| 1. **Using the words of others** – Citing other texts

 **Writing Strategies:** Key Assignment WordsPAPA SquaresRhetorical Essay PlannerSay/Mean/Matter Research JournalSentence Frames | **NA** |
| 1. **Negotiating voices** – Analyzing different points of view and developing a personal conclusion

**Writing Strategies:** Key Assignment WordsPAPA SquaresRhetorical Essay PlannerSay/Mean/Matter Research JournalSentence Frames | **NA** |
| **Writing Rhetorically** |  |
| 1. **Prewriting –** Formulating a working thesis

**Prewriting Strategies:**BrainstormingClustering/WebbingDiscussingFreewritingOutliningQuestioningQuickwritesScanning | As a class create a comparison chart of andesitic (explosive) and basaltic (non- explosive) volcanoes All students copy chart into their interactive notebooks |
| 1. **Writing –** Composing a draft

**Writing Strategies:** Key Assignment WordsPAPA SquaresRhetorical Essay PlannerSay/Mean/Matter Sentence Frames* + 1. Introduction: hook, background, thesis
		2. Body: supports thesis; includes topic sentences; includes different points of view/counter arguments; includes evidence
		3. Conclusion: supports thesis and significance of argument; answers “so what?”
 | Each student writes two paragraphs using the comparison chart and comparison sentence frames.(make sure to hand out the comparison sentence frames) Paragraph one: How are andesitic and basaltic volcanoes similar?Paragraph two: How are andesitic and basaltic volcanoes different? |
| 1. **Revising –** Reworking the content of the draft

 Reflecting on Your Writing* 1. Revising Rhetorically: Ethos, Pathos, Logos
	2. Peer group work, paired work, individual work
 |  |
| 1. **Editing –** Correcting grammar, punctuation, mechanics

Literary Links |  |
| **Evaluating and Responding*** + 1. Norming Session
		2. Highland Scoring Guide/Rubric
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Volcano Vocabulary Self Assessment:

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| --- | --- | --- | --- | --- |
| Vocabulary word |  | Know it well | I have heard of it  | I don’t know it at all |
| lava |  |  |  |  |
| magma |  |  |  |  |
| Andesite |  |  |  |  |
| basalt |  |  |  |  |
| composite volcano |  |  |  |  |
| shield volcano |  |  |  |  |
| silica content |  |  |  |  |
| dissolved gases |  |  |  |  |
| viscosity |  |  |  |  |
| rhyolite |  |  |  |  |
| Quiet eruptions |  |  |  |  |
| Explosive eruptions |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| **Vocabulary Word** | **Definition** | **Illustration (Drawing)**  |
| **Lava** |  |  |
| **Magma** |  |  |
| **Andesite** |  |  |
| **Basalt** |  |  |
| **composite volcano** |  |  |
| **shield volcano** |  |  |
| **silica content** |  |  |
| **dissolved gases** |  |  |
| **Viscosity** |  |  |
| **Rhyolite** |  |  |
| **Quiet Eruption** |  |  |
| **Explosive eruption**  |  |  |