

Volcano Hunters

DEVELOPER: Twig

GRADE: 7 | DATE OF REVIEW: June 2023



Volcano Hunters

EQUIP RUBRIC FOR SCIENCE EVALUATION

OVERALL RATING: E

TOTAL SCORE: 8

CATEGORY I: NGSS 3D Design Score	CATEGORY II: NGSS Instructional Supports Score	CATEGORY III: Monitoring NGSS Student Progress Score
2	3	3

This review was conducted by [NextGenScience](#) using the [EQUIP Rubric for Science](#).

CATEGORY I CRITERIA RATINGS	CATEGORY II CRITERIA RATINGS	CATEGORY III CRITERIA RATINGS
A. Explaining Phenomena/ Designing Solutions Adequate	A. Relevance and Authenticity Extensive	A. Monitoring 3D Student Performances Extensive
B. Three Dimensions Adequate	B. Student Ideas Extensive	B. Formative Extensive
C. Integrating the Three Dimensions Extensive	C. Building Progressions Adequate	C. Scoring Guidance Extensive
D. Unit Coherence Extensive	D. Scientific Accuracy Extensive	D. Unbiased Tasks/Items Extensive
E. Multiple Science Domains Adequate	E. Differentiated Instruction Adequate	E. Coherence Assessment System Adequate
F. Math and ELA Extensive	F. Teacher Support for Unit Coherence Extensive	F. Opportunity to Learn Extensive
	G. Scaffolded Differentiation Over Time Extensive	

Volcano Hunters

EQuIP RUBRIC FOR SCIENCE EVALUATION

Below is a summary of the EQuIP review findings. Please see [this link](#) for the full report.

Thank you for your commitment to students and their science education. NextGenScience is glad to partner with you in this continuous improvement process. The unit is strong in many areas, including offering several opportunities for students to interact with, respond to, and make sense of real-time, three-dimensional examples of events that happen in nature.

During revisions and/or use in the classroom, the reviewers recommend paying close attention to the following focus areas in order to strengthen materials:

- **Providing print versions of the Teacher Guide and Twig Journal** that align with the online teacher directions and student version. The scores in this report are only valid for the current version of the online, interactive version of the materials.
- **Supporting students to feel as if they are driving instruction.** Although student questions are currently elicited, few supports are provided to ensure that those questions will be referred to and positioned during lessons such that students feel like the activities are motivated by their own questions.
- **Aligning messaging about how to support vocabulary acquisition.** Currently, the in-lesson teacher directions for supporting multilingual learners are research based, but they conflict with the guidance found in the Vocabulary and Language Guide provided with the unit.
- **Supporting teachers in using all parts of the assessment system together.** Teachers currently have extensive supports for using some parts of the assessment system, but supports for other parts, especially the Benchmark Assessments, are missing.

Note that in the feedback below, black text is used for either neutral comments or evidence the criterion was met, and purple text is used as evidence that doesn't support a claim that the criterion was met. The purple text in these review reports is written directly related to criteria and is meant to point out details that could be possible areas where there is room for improvement. Not all purple text lowers a score; much of it is too minor to affect the score. For example, even criteria rated as Extensive could have purple text that is meant to be helpful for continuous improvement processes. In these cases, the criterion definitely WAS met. The purple text is simply not part of the argument for that Extensive rating.

Volcano Hunters

EQUIP RUBRIC FOR SCIENCE EVALUATION

Scoring Guides for Each Category

Unit Scoring Guide – Category I (Criteria A-F)	
3	At least adequate evidence for all of the unit criteria in the category; extensive evidence for criteria A–C
2	At least some evidence for all unit criteria in Category I (A–F); adequate evidence for criteria A–C
1	Adequate evidence for some criteria in Category I, but inadequate/no evidence for at least one criterion A–C
0	Inadequate (or no) evidence to meet any criteria in Category I (A–F)

Unit Scoring Guide – Category II (Criteria A-G)	
3	At least adequate evidence for all criteria in the category; extensive evidence for at least two criteria
2	Some evidence for all criteria in the category and adequate evidence for at least five criteria, including A
1	Adequate evidence for at least three criteria in the category
0	Adequate evidence for no more than two criteria in the category

Unit Scoring Guide – Category III (Criteria A-F)	
3	At least adequate evidence for all criteria in the category; extensive evidence for at least one criterion
2	Some evidence for all criteria in the category and adequate evidence for at least five criteria, including A
1	Adequate evidence for at least three criteria in the category
0	Adequate evidence for no more than two criteria in the category

Volcano Hunters

EQUIP RUBRIC FOR SCIENCE EVALUATION

OVERALL SCORING GUIDE	
E	Example of high quality NGSS design —High quality design for the NGSS across all three categories of the rubric; a lesson or unit with this rating will still need adjustments for a specific classroom, but the support is there to make this possible; exemplifies most criteria across Categories I, II, & III of the rubric. (total score ~8–9)
E/I	Example of high quality NGSS design if Improved —Adequate design for the NGSS, but would benefit from some improvement in one or more categories; most criteria have at least adequate evidence (total score ~6–7)
R	Revision needed —Partially designed for the NGSS, but needs significant revision in one or more categories (total ~3–5)
N	Not ready to review —Not designed for the NGSS; does not meet criteria (total 0–2)