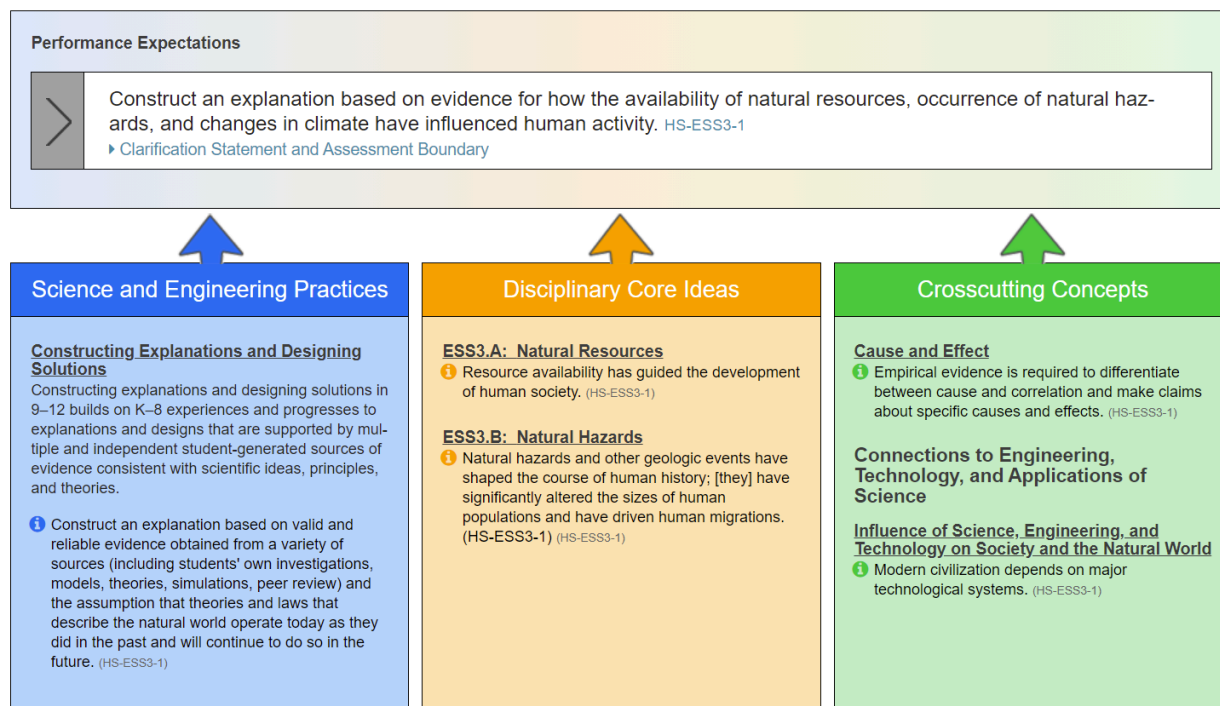


Lesson Plan Topic: How Natural Resources and Hazards Influence Human Activity

HS-ESS3-1 Earth and Human Activity: Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.



Goals for Understanding

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Vocabulary

Identify the new academic words that should be taught in your lesson (*content vocabulary*) and the words needed to understand those ideas (*support vocabulary*)

Content Vocabulary	Support Vocabulary
Sustainability	
Natural Disaster	
Ecosystems	
Resource Allocation	

Learning activities

1. Explore a virtual field trip with data embedded within the images.

Assessment Activities

Assessments: Students will use thing link to create a virtual field trip showing a place that they know well and explaining how human activity within that place is influenced by the availability of natural resources, the occurrence of natural hazards, and changes in climate.

[NSTA LINK](#)

Lesson Plan Agenda

TIME	TASK	DESCRIPTION	NEEDS
5 min	Introduce the Lesson: Planning Sustainable Recovery	Teacher will introduce the ideas that resources are limited	Have notes in the handout Have slides prepared
15 min	Hurricane Maria	Students will take a virtual filed trip to Puerto Rico to visit the site of the hurricane just after it hit. Students will use the data from the VR field trip to make a claim about the amount of Rain fall, resource, and migration	Have VR QR code on slide and in the lessons Optional VR Cardboard goggles [link]
10 min	Small Group Data Analysis & Share	Work in your small group to analysis the data from the Virtual Field Trip	Have notes in the handout Have slides prepared
10 min	Student Share Out	In their small groups, students will share the results of their data analysis	n/a
20 min	Students will Design Models for Sustainable Rebuilding in Small Group	Direction: Working in a small group document how you might lead a recovery that will be sustainable in PR. Answer the following (1) How would you rebuild the city so there are resources for everyone in Puerto Rico? (2) How would you make sure these rebuilding projects would be sustainable? (People are serve, the ecosystem in healthy	Have notes in the handout Have slides prepared
15 min	Share Out	Students will share their responses	n/a
10 min	Teacher Large group review of Case Study 1	The teacher will review case study #1	Have notes in the handout Have slides prepared
5 min	Questions and Answers	Close the session with questions and answers	n/a

DAY 2			
TIME	TASK	DESCRIPTION	NEEDS
5 min	Introduce Day 2	Review the Day	-
15 min	Case Study 2 Review	The teacher will review a second case study to talk about the human influence on ecosystems.	Have notes in the handout Have slides prepared
15 min	Small Group Problems in Our Ecosystem	Directions: Working in small groups of 3, students will work on identifying a local ecological problem and will identify the data.	Have notes in the handout Have slides prepared
10 min	Share Out Progress	Students trained on using ThinkLink and given task to create Think link explanation of problems of the ecosystem.	n/a
30 min	Teaching Students to Create Thing Link	Directions: Using the information in the pages below you will conduct an analysis of our local ecosystem.	Have notes in the handout Have slides prepared
15 min	Students share draft of their Problems of the Ecosystem	Students will share their progress, "What do you have done right now?"	Have notes in the handout Have slides prepared
HW	Students Work on Creating Their Own Ecosystem Analysis	Students will complete their analysis and create a Think Link Virtual Tool to Explain their Analysis	n/a

Day 3			
TIME	TASK	DESCRIPTION	NEEDS
90 min	VR FILM Session	Students will share their Virtual Field trips	n/a