



Science Virtual Learning

4th Grade Reducing Impacts

April 9, 2020

4th Grade Science Lesson 2

- **Learning Target:** Students will learn solutions to reduce impacts of natural disasters.



Four friends were talking about the damage caused by natural hazards such as: tsunamis, floods, and hurricanes. They each had different ideas about how humans can prepare for these events to lessen the damage. This is what they said:

Blake: Humans can prepare for floods and hurricanes, but tsunamis happen too quickly to lessen the damage.

Pablo: Humans can be prepared for hurricanes, floods, and tsunamis. Planning in advance can lessen the damage.

Rita: Hurricanes, floods, and tsunamis are very serious and harmful. Humans can't prepare for them. They have to deal with the damage after they happen.



Background Information/Prior Knowledge:

- Students learn about the Earth's surface in 2nd grade
- Students learn about environmental change over time in 3rd grade
- Students learn about landforms in lesson 1

Let's get started! Watch videos below:

<https://www.youtube.com/watch?v=EobNZUK6EfQ>

<https://www.youtube.com/watch?v=2DhK87MdQ9g>

Practice 1: Let's look at floods...

<https://www.brainpop.com/science/earthsystem/floods/>

Reducing-Make smaller, less

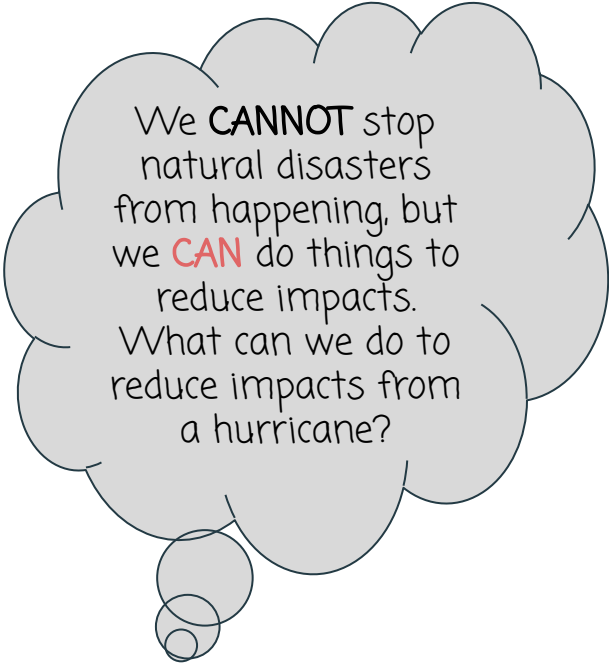
Impact-Strong effect on someone or something

Consider these questions:

- How do floods happen?
- How can floods be dangerous?
- Have you ever seen a flood?
- Where are floods most likely to happen?
- Does this happen where we live?



Practice 2: Let's look at hurricanes



We **CANNOT** stop natural disasters from happening, but we **CAN** do things to reduce impacts. What can we do to reduce impacts from a hurricane?

Watch BrainPop video below:

<https://www.brainpop.com/science/weather/hurricanes/>

Exit ticket: Take the quiz that goes along with the video. Try to get 7 out of 10 correct!

If you don't get 7 out of 10, try again! :)

Practice 3: Let's look at Tsunamis:

Consider these questions:

- How do tsunamis form?
- How can tsunamis be dangerous?
- Explain why tsunamis sometimes start with little to no warning
- What makes tsunamis different than regular waves?

What precautions can you take if there is a tsunami? Choose the best answer

Hint: What word do you hear inside of **precaution**?

- A. Go outside and look around
- B. Get on a boat in the ocean
- C. Seek higher ground and evacuate the area

More practice on floods:

Read the link below and answer the following questions:

<https://www.weatherwizkids.com/weather-rain.htm>

What do you do **before** a flood?

What do you do **during** a flood?

What do you do **after** a flood?



Explain what is happening in the picture above
Why is this dangerous?

More practice on hurricanes:

Read the link below and answer the following questions:

<https://www.weatherwizkids.com/weather-hurricane.htm>



- What is a storm surge?
- When does hurricane season start?
- What is a hurricane hunter? Would you like to have this job? Why or why not?

More practice on tsunamis:

<https://www.youtube.com/watch?v=MfsugkikLJI>

Read the link and tell a family member two interesting facts you learned:

What is another name for a tsunami? Hint: _____ wave



What do you see in this picture? Why does it look dangerous to people and places around?

Self Check



Go tell someone in your home your answers:

1. Was this lesson?

- easy
- just right
- hard

2. Which natural disaster we learned about today sounds the most dangerous to you? Why?