

Learning Target: I can describe and explain how technology helps predict and limit Earth's changes.

How Technology Helps Predict & Limit Earth's Changes Video Notes



1. Constructive processes _____ Earth's surface—like how volcanoes create new _____ or how rivers _____ sediment to form _____.
2. Destructive processes _____ Earth's surface—like _____, landslides, or _____ washing away coastlines.

How we use technology to predict natural events:

1. **Satellites & Weather Radars:** These _____ storms, hurricanes, and tornadoes _____ they hit, so people can _____ and stay _____!
2. **Seismographs:** These special machines detect vibrations _____, helping scientists predict _____.
3. **Drones & Sensors:** Scientists use drones and special sensors to monitor _____ for signs of an _____, like heat and gas levels.

Quick checks for understanding! Pause the video and take 5 minutes to write your answers.

1. What are constructive processes? _____
What is an example of constructive processes? _____
2. What are destructive processes? _____
What is an example of destructive processes? _____
3. How do we use technology to predict natural events? _____

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How we use technology to prevent or limit natural disasters:

4. Predicting _____ is only half the battle. Scientists and engineers also design ways to _____ their impact!

1. Dams & Levees: These structures are built to _____ and prevent _____ in cities and farms.

2. Seawalls & Barriers: Engineers build these along _____ to stop _____ from washing away beaches and _____.

3. Earthquake-Resistant Buildings: Special _____ foundations and shock-_____ materials are built to help buildings survive _____! These materials are largely used to construct buildings in _____, which is surrounded by _____ and is frequently hit with earthquakes and _____.

4. Controlled Burns: Firefighters actually set _____, _____ in forests to prevent _____, more dangerous _____!

Quick checks for understanding!

1. Name three ways scientists and engineers design structures to limit the impact of destructive forces? .

5. So the next time you see a storm _____ on TV or drive over a strong bridge, remember—it's all thanks to _____! By _____ the impact of Earth's constructive and _____ processes, we help _____ people, homes, and nature.