



TEACHER RESOURCE GUIDE

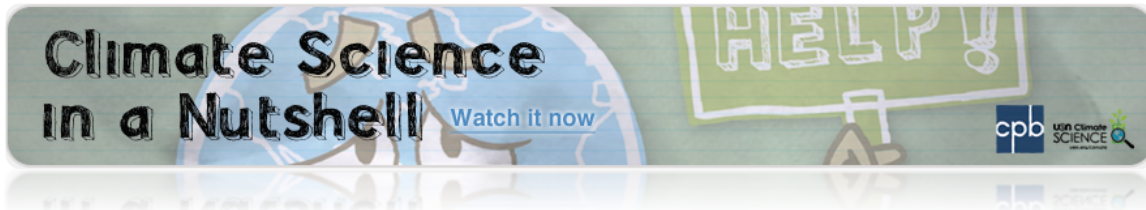
EPISODE 1: A SICK PLANET

Brief Description

Planet Earth. It sure is beautiful, and it's also very unique and special, because under its thin atmosphere, it supports life. But there's a problem. Did you know that the Earth is sick? It has come down with a fever. In fact, the last ten years were the hottest ever recorded. This never-before-seen warming is part of something scientists call "Climate Change." But what could cause our whole planet to get sick? And what is climate, anyway? Have humans played a role in changing it? What's bad about climate change, and how can we stop it from getting worse? In this video series, we answer these questions and more.

Keywords/Key Concepts

Atmosphere	The air that surrounds the Earth.
Carbon Dioxide	A gas that is produced by all animals and plants during respiration and used by plants during photosynthesis. Carbon dioxide is also the by-product of burning fossil fuels.
Climate	A region of the earth having specified climatic conditions, the average course or condition of the weather over a period of years.
Electricity	Energy made available by the flow of an electric charge.
Temperature	Degree of hotness or coldness measured on a definite scale.
Weather	The state of the atmosphere with respect to heat or cold, wetness or dryness, calm or storm, clearness or cloudiness.



TEACHING IDEAS WHEN USING VIDEO IN THE CLASSROOM

While watching television is often seen as a passive viewing experience, there are ways to turn it into a springboard for student interaction. Here are some general teaching strategies that enhance the use of video materials in your classroom by targeting specific skill sets.

- **Predicting**
- **Viewing Comprehension**
- **Listening Practice**
- **Speaking Practice**
- **Discussion**

PREDICTING

With picture and audio on:

- Use the pause control to stop a scene and have students predict what will happen next.
- Use the pause control to stop after a particular line of dialogue and have students predict the next line.

With audio off:

- Have students predict the situation and characterizations based on viewing an entire scene without the sound.
- Have students predict lines of dialogue after viewing an entire scene without the sound.
- Have students predict individual lines of dialogue by using the pause button to stop the scene.

With picture off:

- Have students predict the situation and characterizations by listening to the soundtrack without watching the picture.

VIEWING COMPREHENSION. You can check students' understanding of the situation in the following ways:

Before watching:

- Give students specific things to look and listen for before they watch a scene.

While watching:

- Freeze-frame the scene by using the pause button and check students' understanding

While watching or after watching:

- Have students answer comprehension questions you devise.

After watching:

- Give students cloze scripts and have them fill in missing words in dialog lines.

LISTENING PRACTICE. Have students focus on the dialogue contained in a scene by listening for particular vocabulary words, structures, or functional expressions:

TV Dictation:

- Have students write dialogue lines as they view them, using the pause control to stop the scene after each line.

Cloze Scripts:

- As students view a scene, have them fill in missing words in a cloze script you have created.

SPEAKING PRACTICE

Role Plays:

- Have students role play a scene, practicing the lines of dialogue for correct intonation and emphasis.

On-Location Interviews:

- Have students circulate around the classroom and interview each other using questions contained in the video segment. Students can then report to the class about their interviews.

Information Gap:

- Have half the class see a segment without audio and the other half hear it without the picture. Students from each half of the class then pair up, talk about the situation and characters, and act out the scene.

Strip Dialogue Scenes:

- Write dialogue lines on separate strips of paper, distribute them randomly, and have students recreate the scene by putting the lines together.

DISCUSSION

- Have students discuss the scene, plot and characters' actions, thoughts, and feelings.
- Have students think about what the characters in the scene are thinking but not saying. Students can create these interior monologues, present them to the class, and discuss any varying opinions about characters' inner thoughts during the scene.
- Have students tell which characters they identify with and explain why.

Adapted from *Side by Side TV Reference Guide*.



Episode 1: Welcome to Climate Science in a Nutshell

Planet Earth. It sure is beautiful, and it's also very unique and special, because under its thin atmosphere, it supports life.

But there's a problem. Did you know that the Earth is sick? It has come down with a fever. In fact, the last ten years were the hottest ever recorded. This never-before-seen warming is part of something scientists call "Climate Change."

But what could cause our whole planet to get sick? And what is climate, anyway? Have humans played a role in changing it? What's bad about climate change, and how can we stop it from getting worse?

In this video series, we're going to answer these questions and more.

First, we'll explore some climate basics, so you can understand the important difference between weather and climate. We'll take a close look at a gas called carbon dioxide, which is really piling up in our atmosphere, and is a huge part of the climate change problem.

Next, we'll look at the work of scientists around the globe who've gathered tons of evidence telling us the Earth is rapidly warming up.

Then, we'll look at the effects of this warming from Utah, to Vermont, to Russia, to Uganda. Nearly everywhere, more extreme weather, bigger storms, and higher temperatures are threatening the things we take for granted, like having water to drink and reliable places to grow food.

We'll even look at what climate change is doing to the oceans.

Climate Change is a big problem, but we'll take a look at how, together, we can avoid the worst effects in the future. As you'll learn, the answer lies in figuring out ways we humans can have a smaller impact on the planet and lower the amount of carbon dioxide our bustling cities and towns release into the air.

By making good choices, the nations of the world can stop rapid climate change from getting worse. And while they're at it, they can help create millions of great new jobs for people doing things like getting power from the sun, and making cars that run on electricity.

Most importantly, you'll learn how you can be part of the solution, too. In your everyday life you can do small things that help reduce the Earth's fever and make it well again.

So let's get started!

EPISODE 1: A SICK PLANET

