

Main Topic 1: Climate Change 101

Subtopic 1.1: The Greenhouse Effect: Earth's Blanket

Balloon Experiment

1. Blow up a balloon and tie it. Say, "This is our atmosphere!"
 2. Put the balloon in the fridge for 10-15 minutes. What happens? (It shrinks!)
 3. Take it out and let it warm up. Watch it get bigger again.
 4. Cool, right? The heat-trapping gases in the air work a bit like this balloon.
-

Subtopic 1.2: Why Is It Getting Warmer?

Match Activities to Carbon Footprints

1. Write or print activity cards with fun pictures (like riding a bike or planting a tree).
 2. Draw a poster with two sides: "High Carbon Footprint" and "Low Carbon Footprint."
 3. Match each card to the side you think it belongs to.
 4. Talk with your family about what we can do to reduce our footprints!
-

Subtopic 1.3: The Ice Is Melting!

Ice Cube Melting Experiment

1. Grab two bowls and put a big ice cube in each.
 2. Sprinkle salt on one ice cube. Leave the other one alone.
 3. Watch which one melts faster!
 4. This shows how saltwater melts ice, just like the warming ocean melts glaciers.
-

Main Topic 2: Planet Protectors: How Kids Can Help

Subtopic 2.1: Turn Off the Lights!

Find Energy Vampires

1. Get a checklist and hunt around your house for "energy vampires" (like lights left on or chargers plugged in but not used).
 2. Turn them off or unplug them—Zap! Vampire defeated!
 3. Keep score: How many vampires did you find today?
-

Subtopic 2.2: Plant a Tree, Save the World

Plant a Seed or Small Tree

1. Get a pot and fill it with soil.
 2. Use your finger to poke a small hole in the dirt.
 3. Drop a seed in the hole, cover it with soil, and water it.
 4. Watch it grow over the weeks. You're helping the planet with every leaf!
-

Subtopic 2.3: Walk, Bike, or Scoot!

Plan an Eco-Friendly Route

1. Look at a map of your neighborhood. Mark where you live and where you want to go.
 2. Use colored pencils to draw routes you can walk, bike, or scoot on.
 3. Time your trip and compare it with how long a car would take. Surprise! You might be faster!
-

Main Topic 3: Wild Weather and Changing Climates

Subtopic 3.1: Super Storms: Why Are They Getting Stronger?

Build Your Own Storm

1. Fill a clear jar halfway with water. Add a few drops of blue food coloring for the "ocean."
 2. Stir the water gently with a spoon to make a whirlpool.
 3. Drop tiny pieces of paper or glitter into the water to mimic storm debris.
 4. Spin faster to make a "super storm!"
-

Subtopic 3.2: Droughts and Deluges

Make a Rain Gauge

1. Cut the top off a plastic bottle (ask an adult for help).
 2. Flip the top upside down and place it inside the bottle like a funnel.
 3. Use a ruler to mark lines and numbers on the side.
 4. Put your rain gauge outside, wait for rain, and measure how much you collect!
-

Subtopic 3.3: Snow in Summer? What's Going On?

Weather Trivia Quiz

1. Prepare fun questions about weather (like "What's the hottest place on Earth?").
 2. Write three silly answers and one correct one for each question.
 3. Play with friends and see who can answer the most correctly.
 4. Share fun weather facts after each round!
-

Main Topic 4: Animals and Climate Change

Subtopic 4.1: Polar Bears Need Ice

Help the Polar Bear Find Ice (Maze)

1. Print or draw a maze with a polar bear at one end and ice at the other.
 2. Add fun obstacles like "melting ice" or "hungry seals."
 3. Guide the polar bear safely to the ice and learn about why their homes are disappearing.
-

Subtopic 4.2: Butterflies on the Move

Butterfly Migration Map

1. Get a map of the world or your country.
 2. Use stickers or markers to trace the Monarch butterflies' migration paths.
 3. Add fun facts like how far they travel and why they move to cooler places.
-

Subtopic 4.3: Penguins and Melting Icebergs

Penguin Coloring Sheet

1. Download or draw a penguin coloring page with icebergs and fish.
 2. Use your favorite colors to decorate the penguins and their world.
 3. Talk about how melting ice is making life harder for these cool birds.
-

Main Topic 5: The Future of Our Planet

Subtopic 5.1: Cool Inventions for a Cool Planet

Match Renewable Energy Types

1. Print or draw pictures of solar panels, wind turbines, and dams.
 2. Write their energy sources (like "sun," "wind," or "water") on separate cards.
 3. Match each picture to the correct energy source.
-

Subtopic 5.2: Cities of the Future

Design Your Dream Green City

1. Grab a big piece of paper and draw a city with green features like solar panels, rooftop gardens, and electric buses.
 2. Add fun details like bike paths, wind turbines, and parks.
 3. Share your masterpiece with family and explain how your city helps the Earth.
-

Subtopic 5.3: How You Can Be a Climate Scientist!

Measure Temperature Differences

1. Put one thermometer in a sunny spot and another in the shade.
2. Wait 10 minutes and check both temperatures.
3. Write down what you see and think about how trees and shade can help keep cities cooler.