



SET UP INSTRUCTIONS

Climate Change Affects the Forests Kit

Introduction to Portable Self-Guided Exhibit Kit

“Climate Change Affects the Forest” is one of four portable self-guided exhibit kits in the Climate Change Toolkit. Each kit includes an activity map and four hands-on activities that can be packaged in a small bag or box and bundled together for checkout by families. The kits are designed to present some of the science behind how climate change is affecting this environment while also providing opportunities for participants to learn how their behavior can make a positive difference. At the end of each activity guide look for the Climate Detective Challenge question; the answer to this question can be found along the edge of the activity map. Have fun!

Setting up the Kit

Things you will need to set up the kit:

1. Container such as a backpack, a wooden box, or a plastic tub that has internal dimensions of approximately 14” x 11” x 5” (l x w x h). This container will hold the 4 activities and activity map.
2. 4 activity bags to hold the contents of each activity (1 gallon plastic storage bags or cloth pouches)ⁱ.
3. Activity map printed from toolkit files.
4. Labels printed from toolkit files for activity box/ container.
5. CO₂ molecule icon game pieces (4 per activity map).
6. Velcro to attach game pieces to activity map.
7. General assembly supplies such as scissors, hole puncher, glue, string, etc.

Kit Preparation Instructions:

1. **Download** and **print** 24” x 18” (L x H) activity map (we recommend printing on vinyl or ordering as a game board)ⁱⁱ. **Place** inside activity box/ container.
2. **Download** and **print** the four CO₂ molecules game pieces. **Attach** velcro to game pieces and activity board.
3. **Download** and **print** title labels for “how to explore this kit” and other labels. **Attach** labels.
4. **Download** and **print** directions for inside of activity box/container. **Attach or place** directions inside activity box/ container.
5. **Assemble** each activity and **place** each into a small bag.



Setting up the Activities

Tree Ring Science

Things you will need:

1. Activity guide
2. Tree “cookie” samplesⁱⁱⁱ
3. Magnifying glasses

Preparation Instructions:

1. **Download** and **print** activity guide.
2. **Place** activity guide, tree “cookie” samples, and magnifying glasses into activity pouch.

Trees: Long Term CO₂ Storage

Things you will need:

1. Activity guide
2. Trees Long Term CO₂ storage template
3. Velcro (optional to attach game pieces to board)

Preparation Instructions:

1. **Download and print** activity guide, game board, and sheet of game pieces.
2. **Laminate** the game board.
3. **Cut** out and **lamine** game pieces.
4. **Place** activity guide, game board, and puzzle pieces into activity pouch.

Fossil Fuels from the Forest

Things you will need:

1. Activity Guide
2. Coal Samples^{iv}
3. Life cycle of coal story book

Preparation Instructions:

1. **Download and print** activity guide and life cycle of coal story book pages.
2. **Cut** and **lamine** story book pages.
3. **Hole punch** top of story book pages and **tie** a string through each hole to bind book.
4. **Place** activity guide, life cycle of coal story book, and coal samples into activity pouch.

The Puzzling Golden Toad

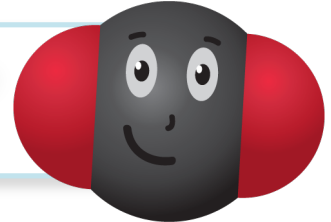
Things you will need:

1. Activity guide
2. The Puzzling Golden Toad game board
3. The Puzzling Golden Toad time line puzzle pieces

Preparation Instructions:

1. **Download and print** activity guide, time line game board, and time line puzzle pieces.
2. **Cut** out and **lamine** the game board and puzzle pieces.
3. **Place** activity guide, time line game board, and time line puzzle pieces into activity pouch.

For durability we recommend laminating activity guides, labels and other activity materials



These supplies can be purchased at:

ⁱ reuseit: www.reuseit.com

ⁱⁱ Chicago Game and Card Co.: www.chicagogameandcard.com

ⁱⁱⁱ Nature-Watch: www.nature-watch.com

^{iv} Flinn Scientific, Inc.: www.flinnsci.com