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Explore your world with this Science-to-Go backpack



Books in this backpack

- **12 Things to Know About Climate Change**
by Rebecca Felix and Jamie Kallio
- **Buried Sunlight: How Fossil Fuels Have Changed the Earth**
by Molly Bang and Penny Chisholm
- **Climate Change: Discover How It Impacts Spaceship Earth**
by Joshua Sneideman and Erin Twamley
- **Global Warming**
by Seymour Simon
- **A Warmer World: From Polar Bears to Butterflies,
How Climate Change Affects Wildlife**
by Caroline Arnold

More books
at your
library

Climate Change. Dan Green. J551.6
Earth's Climate Change. James Bow. J363.7387
Explore Weather and Climate. Kathleen Reilly. J551.6
What Are Global Warming and Climate Change?
Chuck McCutcheon. J363.7387

Local Connection

Join
one of the
many environmental
education classes offered
by Pierce County. Find them at
co.pierce.wa.us/index.aspx?NID=1555

A terrarium is a mini-greenhouse that you can build yourself. It is also a great model of the greenhouse effect, one cause of climate change. In this fun activity, you will create something attractive while also observing how heat can become trapped in a closed system (like the atmosphere traps heat on Earth.)

What you need:

- Large, clear, clean, wide-mouthed jar with tight lid (glass or plastic)
- Pebbles
- Activated charcoal (found in pet stores) or dried moss
- Potting soil
- Small moisture-loving plant(s) such as moss (gather from the yard), philodendron or ferns
- 2 small outdoor thermometers
- Water

Try this:

1. Place a layer of pebbles on the bottom of the container.
2. Add a thin layer of charcoal (if using dried moss, soak with water, squeeze out, then pat to fit over the pebbles).
3. Add a layer of potting soil.
4. Add your plant(s), covering the roots with potting soil.
5. Water well, moistening the soil.
6. Place a thermometer in the terrarium. Close the lid tight.
7. Place your terrarium in a semi-sunny place indoors. Place the second thermometer next to it.
8. Check on your plant every day, taking note of its growth. Write down the daily temperature inside and outside the terrarium. Are they different? Why do you think that is?

Adapted from the American Museum of Natural History's Moon Watch Flip Book activity, amnh.org/ology