





## Making a Greenhouse

### BIG IDEAS:

Today you will **EXPLORE EVAPORATION & THE GREENHOUSE EFFECT** and **BUILD YOUR OWN MINI-GREENHOUSE.**

Greenhouses	The Greenhouse Effect
	

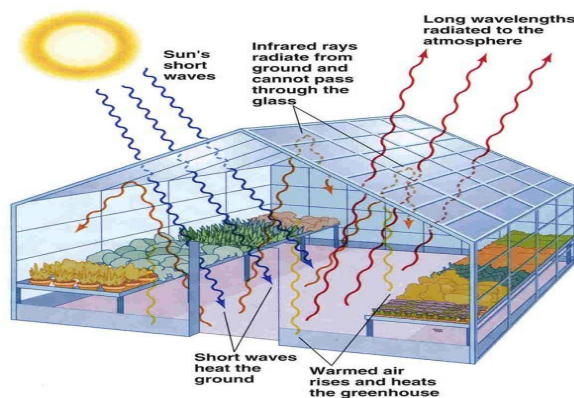
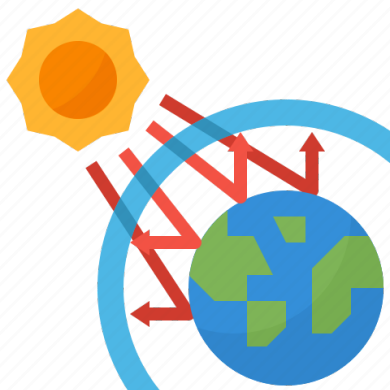
### YOU WILL NEED:

- [A Guide to Upcycling](#) handout
- Materials you can use to build a mini-greenhouse
- Pencil and/or colored pencils
- Paper to write/draw on or Journal
- See [Planting for Future Generations](#) lesson if you want to plant in your greenhouse
- *Optional:* Taste Test- seasonal vegetable roasted with olive oil, diced **garlic**, and a pinch of salt.

**GROW MINDS, CULTIVATE COMMUNITY**

## WHAT TO DO:

1. **REVIEW** the [Green Heart Rules of Respect](#). New to Green Heart lessons? Check out our [Respect the Garden](#) lesson.
2. **WATCH:** the Climate Kids [What is the Greenhouse Effect?](#) to learn about greenhouses & the greenhouse effect.
3. **DRAW:** a diagram of the greenhouse effect on a piece of paper, or in your journal. See the diagrams:



4. **ANSWER:** the following TRUE or FALSE questions. Write down your answers, or discuss with a partner:

1. A greenhouse is usually colder inside than the outside temperature.	TRUE or FALSE
2. Greenhouses trap heat from the sun and other gases, which heats up the inside of the greenhouse.	TRUE or FALSE
3. Greenhouse gases like water vapor are trapped by the earth's atmosphere and heat up the earth.	TRUE or FALSE



*\*Now that you have learned about the greenhouse effect, it is your turn to construct your own mini-greenhouse!*

5. **READ:** the [Guide to Upcycling](#) handout. You will make your own mini-greenhouse using materials you can find around your home or community. *This activity is an example of respecting the earth, as we repurpose & reuse old materials that might have gone into the trash & to the landfill.*
6. **WATCH:** the [video](#) of Ms. Emma as she describes upcycling and the steps to put together your own mini-greenhouse.
7. **LOCATE:** your materials for your mini- greenhouse. Use your handout and the video of Ms. Emma to help you think of materials.

**Places to look:** recycling bin, kitchen, around the house or yard.

**Characteristics of containers:** clear/let light in, can hold soil, have a lid or top.

8. **CREATE:** your own mini-greenhouse.
9. **TASTE TEST (OPTIONAL)** - [Watch here](#) to follow along with Ms. Emma to do a Green Heart Taste Test! This week, try a seasonal vegetable - [Fall Vegetables](#) - roasted with olive oil, diced (cut into small pieces) **garlic**, and a pinch of salt.
  - Give your taste-test a Green Heart rating. 1, 2 or a 3!
10. **CLEAN-UP:** Put your Green Heart supplies back into a safe space to be ready for your next lesson!

*For educator notes & to “dig deeper” see [here](#).*