

Garden Ecology: Phototropism

Phototropism: the movement of a plant toward the light.

You need: 2 growing containers with 3 seedlings growing in each container

(suggestions: tomatoes, or sunflowers)

a box (with a lid) large enough for a container with 3 seedlings to fit inside
scissors

- **Cut** a hole (a circle 2 inches in diameter) in one side of the box.



- **Place** one container with three seedlings into the box. **Cover** the box with the lid so that light gets in only through the hole you made.



- **Place** the covered box **AND** the other container of three seedlings on a windowsill. Make sure the hole in the box **faces** the window. **Open** the box only to water the seedlings. Make sure you **put** the lid back on each time!

- After two weeks, **open** the box and **observe** the seedlings. How did they grow? _____

Compare these seedlings to the other ones growing in full sun on the windowsill.

- How did they grow? _____
- **Photograph** or **draw** a picture of the seedlings in each container and attach to this activity sheet.