



# LIGHT MAZE



## WHAT IS PHOTOTROPISM?

Phototropism is the movement of a plant in response to light. See it in action with a DIY plant maze.

### You Will Need:

- Old shoe box with lid
- Cardstock paper (Dark colors are best.)
- Pencil
- Ruler
- Scissors
- Double-sided tape
- Soil
- Seeds (We used beans, which grow quickly.)
- Small plastic cup
- Small plastic or metal lid or plate
- Water

### Steps

#### 1. Create your maze:

- Measure the inside of your box to create a cardstock divider. Add about 1 inch to the measurements so you can make tabs to secure the divider to your box.
- **Tip:** Use thick, dark paper for your divider to keep light out.
- Draw and cut a circle to one side of the divider.
- Draw and cut a hole at the top of the shoe box, to one side.
- Tape the divider in the middle of the shoe box, making sure that the hole cut into divider is on the opposite side of the hole cut into the box.
- **Tip:** You can be creative by making a complicated maze with more layers. Just make sure you don't block off the light completely.

#### 2. Plant the seed:

- With a pencil, poke three holes through the bottom of your cup. Add soil to your cup.
- Plant your seed about 1/2 inch below the surface of the soil, and water it.

#### 3. Wait and let the fun begin!

- Place your cup in the box, under the divider, on the opposite side of the hole.
- Place a small lid or plate beneath the cup to capture excess water.
- Place the lid back on the box. Be careful as the box will be on its side.
- Place your plant maze near a sunny window.
- Open the box every few days. Keep your cup watered.
- Be amazed by your plant as it travels through the maze!