

Name:

Date:

Section:

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## Plant Response Activity: Plant Hormones and Tropisms

### Plants Can Move? Yes They Can! 🌱

#### Phase 1: ENGAGE (5 minutes)

##### Getting Started:

Open [peebedu.com](http://peebedu.com) and navigate to Plant Response Simulator

##### First Look:

1. You'll see two tabs. Start with "Phototropism" (photo = light, tropism = turning)

1. What do you see? Check all: \_\_\_\_\_

1. **Try This:** Drag the sun to different spots. What happens?

**Big Question:** How do plants "know" where light is coming from? 🤔

#### Phase 2: EXPLORE (18 minutes)

##### Mission 1: Sun Chaser ☀️

##### Part A: Light Direction Test

1. Put the sun in these positions and draw what happens:

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1. Which way does the plant always bend? Toward / Away from light \_\_\_\_\_

1. Watch the purple dots (auxin). Where do they go? \_\_\_\_\_

- When light is on the left, auxin goes to the \_\_\_\_\_ side

## Part B: Growth Detective 🕵️

1. Time how long it takes the plant to bend (count slowly):

- Big bend: \_\_\_\_\_ seconds

1. Watch the new leaves grow. They point toward the \_\_\_\_\_!

## Mission 2: Day and Night 🌙

Click on "Photoperiodism" tab.

## Part C: Flower Power

1. Move the day length slider and fill in:

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Can turn it off?	Can turn it off?
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## Exit Ticket: 🎫

Draw an emoji for how you feel about plant movements:

- 🚀 Mind = Blown!
- 😊 Pretty cool

- 🤔 Still thinking
- 😕 Confused

One cool fact I learned: \_\_\_\_\_

One question I still have: \_\_\_\_\_

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### **\*\*Fun Plant Facts!\*\*** 🌿

- Sunflowers track the sun all day long!
- Some plants can "remember" being touched
- The Sensitive Plant closes when touched
- Venus Flytraps move faster than you can blink!
- Some bamboo grows 3 feet in one day!

### **\*\*Try at Home:\*\***

#### **1. Bean Maze:**

- Plant a bean in a shoe box
- Cut holes to make a maze
- Watch it find the exit!

#### **1. Window Turner:**

- Mark one side of a houseplant pot
- Check daily which way it leans
- Rotate weekly for even growth

#### **1. Light Timer:**

- Cover a plant at different times
- See if you can change when it flowers
- (Use fast-growing plants like beans)

### **Key Vocabulary:**

See activity for vocabulary specific to this topic.