

Examples of Plant Tropisms

Phototropism (Light): Plants bending toward a window or sunlit area to maximize photosynthesis.

Gravitropism/Geotropism (Gravity): Roots grow downward (positive) into the soil, while stems grow upward (negative), even if the plant is placed on its side.

Thigmotropism (Touch): Vines and tendrils, such as peas and morning glories, twist and wrap around objects they touch.

Hydrotropism (Water): Roots bending and growing toward areas of higher moisture in the soil.

Heliotropism (Sun): Sunflowers turning their heads to follow the sun's movement across the sky.

Chemotropism (Chemicals): Pollen tubes growing down the style toward the ovule, responding to chemical signals.

Thermotropism (Temperature): Rhododendron leaves curling up in response to extreme cold.

