

BIOMIMICRY

YOUTH DESIGN CHALLENGE

Two Viewpoints of a Tree

LEARNING ABOUT → **LEARNING FROM**

Name:
Oak (*Quercus spp.*)

Leaves:
Simple alternate,
with irregularly
rounded lobes

Range:
Broad, temperate
to tropical

Uses:
Furniture, veneer

Canopy humidifies air, increasing inland precipitation.

Leaves capture solar energy with nontoxic and biodegradable materials.

Limbs create structural support with minimal materials.

Trunk moves water against gravity without motorized pumps.

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Microscopy courtesy of Eckhard Völcker