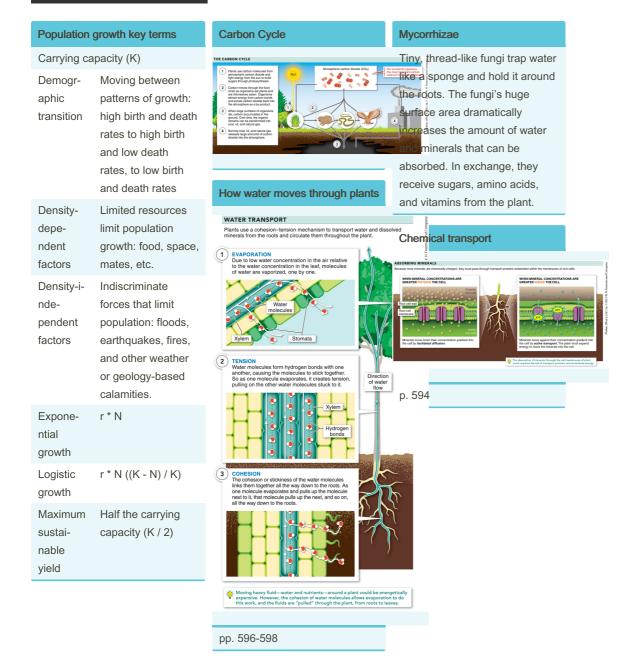


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Plant tissues and structures **Epidermis** Guard Form the stoma, cells allowing gas exchange Phloem Flows sugar down to roots through sieve tubes and distributes water and nutrients to cells in need **Xylem** Dead cells that provide main structural support while moving water and nutrients up to the plant Cork cells Create outer bark in trees, providing fire protection to inner living tree. Think: APEX, at the Apical

top (upward,

occurs)

growth)

elongating growth

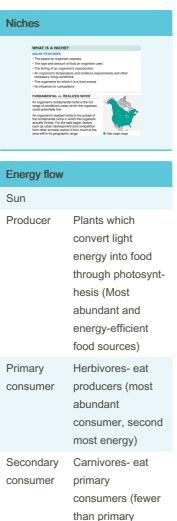
Think: Lats get

layers of cambium

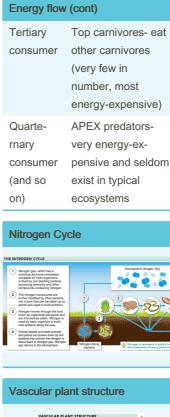
Inner stem tissue

Outer stem tissue

swole (lateral



consumers)





Q & A plants

Which modified structure are all of the following examples of?
Potatoes, runner vines, asparagus spears, daffodil bulbs
Stems

Why do carnivorous plants thrive in low-nutrient environments?

When given more nutrients, its focused on building larger photosynthetic leaves and smaller or no carnivorous

and smaller or no carnivorous structures. When given little to no nutrients, plants focused more on building carnivorous structures.

Leaf structure Leaf structure O many cyricle O some finance O many cyricle O some finance O many cyricle O some finance O so

p. 584



meristems

Lateral

Pith

Cortex

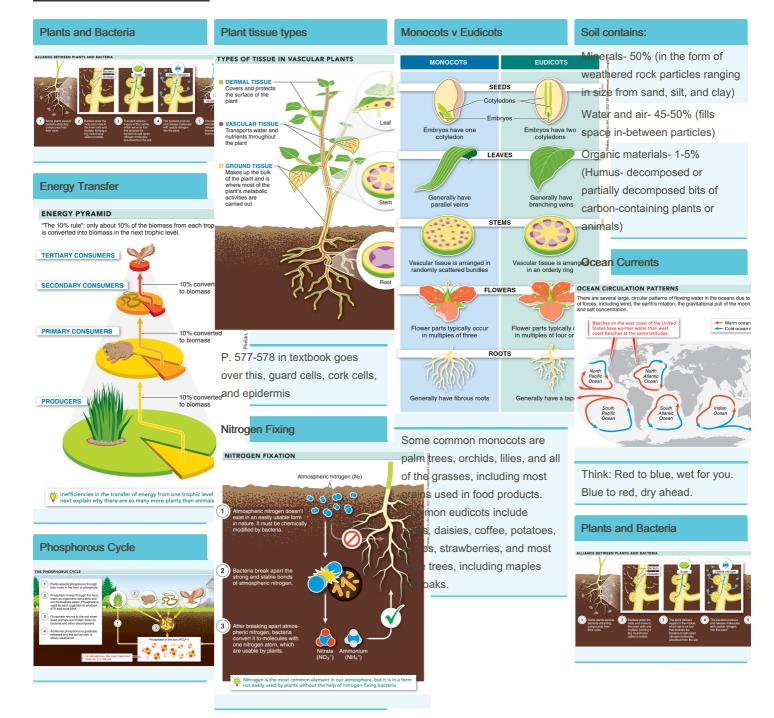
meristems

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Plants require...

REQUIREMENTS FOR PLANT NUTRITION







Provides a source of carbon dioxide, from which carbon can be recovered and used in the construction of sugar



Potassium

Soll.

Although soil itself is not necessary, it typically contains the minerals essential for building new cells and assembling them into new tissues. Which holds more heat: air or



Ca Calcium

Plants technically do not require soil, as hydroponic gardening is a possibility. They do require these other nutrients in trace amounts. however: chlorine. iron, boron, manganese, zinc, copper, and molybdenum.

Q & A

Why is it so much colder at the poles than at the equator?

The curvature of the Earth causes sunlight exposure to spread out over further swaths as it gets closer to the poles.

Q & A (cont)

Why,is there so much more biodiversity along the equator?

1. The concentration of รนธิ์light provides a lot of energy 2. Warm air holds more moisture than cold air, which increases the water cirgulating near the equator, and causes deserts around 30 degree latitude.

water?

Water holds 10,000 times as much heat as air, meaning it takes more energy and temperature change to heat water, and air temperature fluctuates more easily.

What is the rain shadow effect?

Water travels from the ocean over land through warm air. As the air moves up over mountains, the temperature drops, forcing the moisture out as precipitation. A rain shadow is left when the air drops back down behind the mountain and warms again, creating more arid climates with little annual rainfall.

Q & A (cont)

How do ocean currents work?

Ocean currents warm slowly as they travel through warmer areas and cool slowly as they travel through cooler climates. The currents travel in large, circular motions warming cooler land with warm currents and cooling warmer land with cool currents.



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