

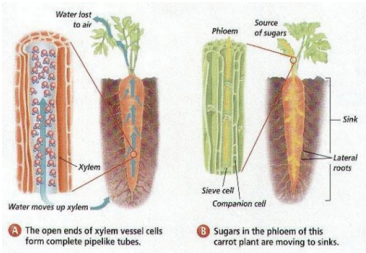



Classification of Plants	
<p>Vascular plants</p>  	<ul style="list-style-type: none"> • Largest group in the plant kingdom • Have true roots, stems and leaves • Bigger than nonvascular plants • Xylem- carries water from roots to leaves • Phloem- carries glucose from leaves to the rest of the plant • can reproduce with seeds or spores 

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<p>What are nonvascular plants?</p> 	<ul style="list-style-type: none"> • lack vascular tissue- cannot transport water throughout the plant • grow low to the ground • do not have roots • absorb nutrients • live in damp, dark places • have very thin cell walls
<p>Importance of nonvasculars</p>	<ul style="list-style-type: none"> • prevent erosion on forest floor • foundation for forest floor

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Moss



- tiny leaf-like structures grow out of a stem-like structure
- Rhizoids (thin root like structure) anchor plant in ground and absorb nutrients
- Spores are in sporophyte which grow out of stem like structure
- Important because....
 - used in agriculture and gardening
 - used as fuel to heat homes and cook food (peat moss)



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Liverworts



- found growing as a thick crust on moist rocks or soil along sides of a stream
- named for its shape resembling a human liver

Hornworts






- usually live in moist soil, mixed in with grass plants
- have horn like structure




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Spore producing	<ul style="list-style-type: none"> • produce spores for reproduction • spores are smaller than a seed • almost all flowerless plants produce spores • examples <ul style="list-style-type: none"> - moss, liverworts, hornworts, ferns
Seed producing	<ul style="list-style-type: none"> • reproduces through seed • make their own seeds • new plants grow from seeds <p>2 types</p> <ul style="list-style-type: none"> - Gymnosperms- evergreen trees - Angiosperms- flowers, fruits and veggies

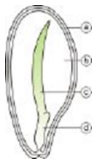
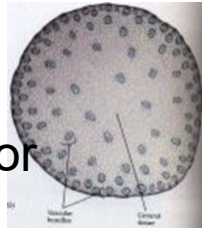


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<p>Gymnosperms</p>  	<ul style="list-style-type: none"> • cone bearing plants • largest group of seed producing plants • most are evergreen plants • never have flowers • needle like leaves • naked seeds- not protective covering • examples: cycads, conifers, ginkgoes, gnetophytes 
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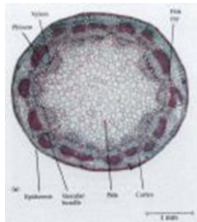
<p>Angiosperms</p>	<ul style="list-style-type: none"> • can produce flowers or fruit • grow their seeds inside an ovary -ovary-reproductive part inside flower • flower becomes a fruit containing seeds • food is stored in one or two seed leaves called cotyledons
	
	

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<p>Monocots</p>	<ul style="list-style-type: none"> • seed leaves with one food storage area • flowers have 3 petals or petals in multiples of 3 • leaves are long and slender with veins that are parallel • vascular tubes are scattered randomly throughout the stem • examples: grass, lily, daisy, corn, rice and tulip
	
	
	

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Dicots



- seed leaves with two food storage areas
- flowers have 4 or 5 petals or petals in multiples of 4s or 5s
- leaves are wide with branching veins
- vascular tubes are in a circle in the stem
- examples: roses, dandelions, maple trees and oak trees

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Apr 25-7:03 AM