New Terms - The Plant Kingdom

cotyledon -	first leaves to appear during germination which store the nutrients
	for
	germination.
monocot -	term used to describe plants that have one cotyledon - grasses and
	lilies
dicot -	term used to describe plants that have two cotyledons -
	beans
pollen -	male gametes produced by plants in the anther
ovary -	site in flowering plants which encloses the ovules and is where
	fertilization takes place.
pistil -	flask-shaped female reproductive unit in a flower made up
	of the stigma
	and the style.
stigma -	the sticky upper part of the pistil where pollen is deposited during
	pollination
style -	a narrow stalk that connects the stigma to the ovary
stamen -	the male organ in flowering plants consisting of the anther and a
	stem-like filament.
anther -	part of the stamen that produces pollen
petals -	colorful structures of the flower that are used to attract other
•	organisms
	to help in pollination.
sepal -	a ring of adapted leaves that protect the flower as a bud
angiosperm -	literally means protected seed; refers to the flowering plants, the
	most
	developed and complex of the plant kingdom.
gymnosperm -	literally means naked or unprotected seed; refers to the conifers - pine
	trees, cedars, and redwoods.
ferns -	seedless plants; have fronds rather than leaves
frond -	the equivalent of leaves for a fern
cone -	the male or female reproductive organ of the conifers - like
	pine cones -
	they produce the pollen and ovules for the conifers.
conifer -	tress or shrubs in northern temperate climates like spruces, pine
	trees,
	and cedars. Most of them produce male and female cones.
sori -	small cases on the under side of fern fronds that store the
	spores
	produced by the fern.
xylem -	the specialized tissue in vascular plants carries water and minerals
-	up
	the plant for photosynthesis; is the part of the plant that becomes wood.
phloem -	the specialized tissue in vascular plants which carries sugars and
-	other

	nutrients throughout the plant - carries the products of photosynthesis
	to different parts of the plant; combines with cork during growth to
	become bark.
stomata -	small openings in the dermal tissue which allow oxygen, carbon
	dioxide,
	and water to enter and leave the plant.
guard cells -	surround the stomata and regulate the opening and closing of the
	hole
meristemic tissue -	growth tissue - plants grow where this tissue is found
apical meristem -	is found at the tips of roots and stems and helps plants grow up from
	the ground, and helps the roots penetrate deeper in the soil.
lateral meristem -	is used for plants that grow larger and thicker - responsible for lateral
	growth
root cap -	protective covering on tips of roots to help them penetrate deeper
palisade cells -	cells which contain chloroplasts directly under the epidermal layer in
	vascular plants.
epidermal layer -	contains waxy cuticle covering for protecting the plant
spongy mesophyll -	found beneath the palisade cells and is made of loosely packed cells
	containing chloroplasts.
rhizoids -	root-like structures in nonvascular plants (mosses)
nonvascular plants -	plants that have no specialized tissues for transporting fluids
vascular plants -	have specialized tissues for transporting fluids (xylem and phloem)
autotrophic -	term used to describe organisms that are able to produce own food
chlorophyll -	pigment in plants that absorbs the energy from the sun for
	photosynthesis
alternation of genera	ations - term used to describe the life cycle of a plant as it changes from
	a haploid (gametophyte) generation to a diploid (sporophyte)
, , ,	generation.
gametophyte genera	tion - the haploid generation of plants
sporophyte generatio	on - the diploid generation of plants
archegonia -	site in plants where egg cells are produced
antheridia -	site in plants where sperm cells are produced