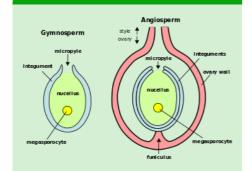


AP Biology Unit 4: Plant Physiology Cheat Sheet

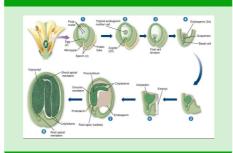
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Gymnosperms vs. Angiosperms



Seed Development

Monocot vs. Dicot



Auxins

Plant Hormones

distribution of auxins → phototropism enhances apical dominance (vertical) promotes fruit growth

Cytokinins

stimulates cytokinesis & cell division delays senescence (aging)

Gibberelling

cause stem elongation, fruit growth, & seed germination

auxin+gibberellins=fruit development

Brassinosteroids

induce cell elongation & division in stem segments, slow leaf abscission

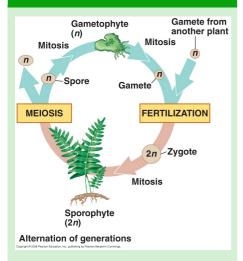
Abscisic Acid (ABA)

antagonizes growth hormones, inhibits germination, used to withstand drought must be washed/exposed to light/cold to deactivate

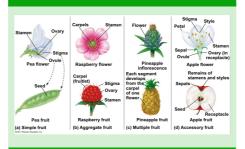
Ethylene Gas

produced in response to stress during fruit ripening, apoptosis, & exposure to auxin

Gametophyte/Sporophyte Cycle



Types of Fruits



Angiosperm Reproduction



Plant Transport

Short-distance

occurs by osmosis (movement of free water through aquaporins)

Long-distance

bulk flow using:

translocation (H+ gradient) through phloem (sugar)

transpirational pull (cohesion) through xylem (fluid/minerals)



By **hlewsey** cheatography.com/hlewsey/

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