

Objectives

- Describe the adaptations the angiosperms developed that allowed them to be the most successful plants today.
- Compare and contrast monocots and dicots.
- Explain what annual, biennial and perennial plants are.
- · Identify the parts of a flower

Division Anthophyta

- Also called "
- Most successful plants on the planet.
 - Reasons:

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- 1) Development of the ____
 - flower's job is to attract pollinators, so plant doesn't have to produce as much pollen as gymnosperms

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- 2) Development of the _
 - fruit's job is to protect plant embryo
 - also aids in seed dispersal

Angiosperm Classification

- Used to be just two groups
 - 0 _____
- Now, the dicots have been broken into several clades, including:
 - Amborella Clade
 - Water Lily Clade
 - o Magnoliid Clade
 - Eudicots

Monocots vs Dicots

- Monocots:
 - plant embryo has one _____ (seed leaf)
 - flowers have parts in multiples of ______
 usually ______ veins

- ex:
- Dicots:
 - plant embryo has cotyledons
 - flowers have parts in multiples of ______
 - _____ veins
 - larger group of plants, includes ______ (except conifers, palms)

Anthophytan Life Cycles

•	annua	s:	plant	lives	for
	annaa		PIGIN		

- most <u>herbaceous</u>:
- seeds are built to survive winters
- biennials: plant lives for ______
 - first year, plant grows ______ for food storage
 - over winter, plant _____, survives on food stored by root
 - second year, plant produces
- perennials: plant lives for
 - produces flowers/seeds periodically
 - many have _____stems

Anatomy of a Flower

- petals: generally, colorful parts of the flower used to attract pollinators
- <u>sepals</u>: leaves used to protect the young flower bud
- stamen: male flower structure, consists of
 - anther: pollen-producing tip of stamen
 - · filament: stalk that attaches anther to flower
- pistil: female flower structure, consists of:
 - stigma: sticky tip to which ______

style: stalk of pistil that _____

- ovary: contains the ovules,
- ovule: contains egg cell, develops into the seed



Label the Flower Above