

Appendix 2. Plant Morphology Review

Name the major plant organs.

What are the continuously actively dividing cell regions of a plant called and where are they located?

What is meant by plant habit and what are the types of plant habit?

What is the function of roots?

What is a shoot?

What is a bud, where do buds typically develop, and what do they develop into?

Define node, internode.

What is stem habit?

What is the difference between monopodial and sympodial?

What is the difference between a bract and a scale?

From what is a phyllode derived?

Name three modifications of leaves found in carnivorous plants.

Draw a typical flower and label all the parts, including collective terms.

Name the two basic types of flower sex.

Name the three basic types of plant sex. What is the corresponding type of flower sex for each?

What is the difference between protandrous and protogynous?

What are the two major types of perianth arrangement?

What is perianth cyclcy?

What is the difference between dichlamydeous and homochlamydeous?

What is a nectary and what are some types of nectaries?

What is the difference between a gynoecium, carpel, and pistil?

What are the 3 parts of a pistil? What is a locule?

How is carpel number determined?

Name the stalks/axes: pedicel, peduncle, petiole, petiolule, rachis, rachilla.

Name two types of inflorescence position.

What is the difference between determinate and indeterminate inflorescence development?

What is a dichasium?

How does a monochasium differ and what are two major types?

What are the differences between a simple, aggregate, and multiple fruit?

What is the difference between endospermous and exalbuminous?

What is the difference between cyclcy and merosity? Give an example of each.

What is the difference between coriaceous and indurate? between scarios and succulent? What is the character for these?

What is the difference between connate and distinct? between adnate & free? between adherent & coherent?
What is the character for these?

What is the difference between position. arrangement. and orientation?

What is the difference between transverse posture and longitudinal posture?

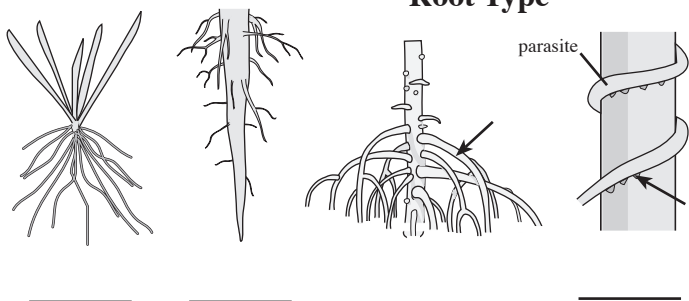
Surface refers to 3 features: configuration, epidermal excrescence, and vestiture. How do they differ?

What is the difference between glabrous, glaucous, and viscid?

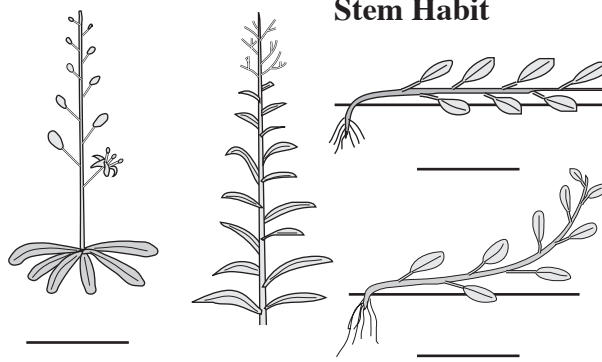
What is the difference between annual, biennial, and perennial? For what character are these character states?

What is the difference between caducous and accrescent? For what character are these character states?

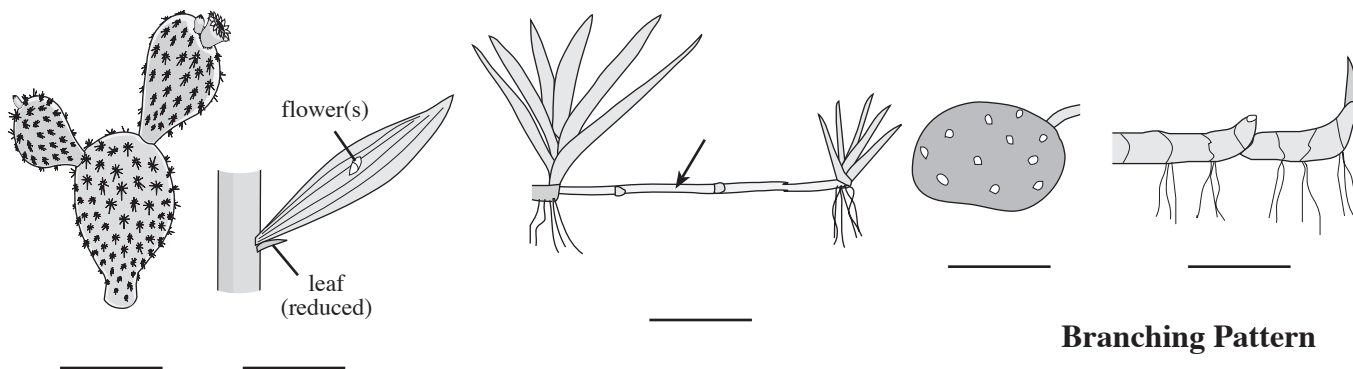
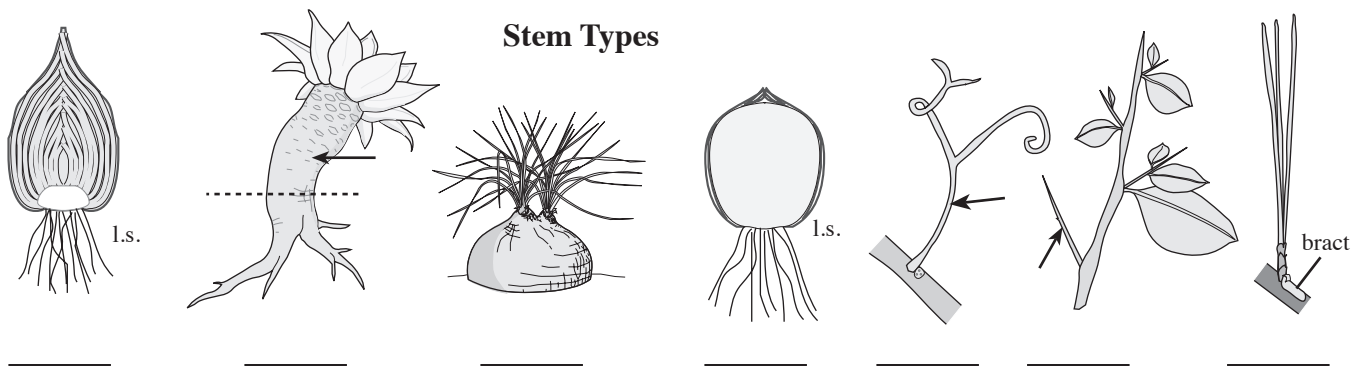
Root Type



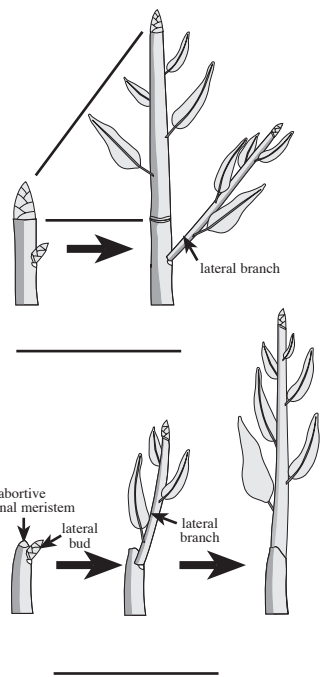
Stem Habit



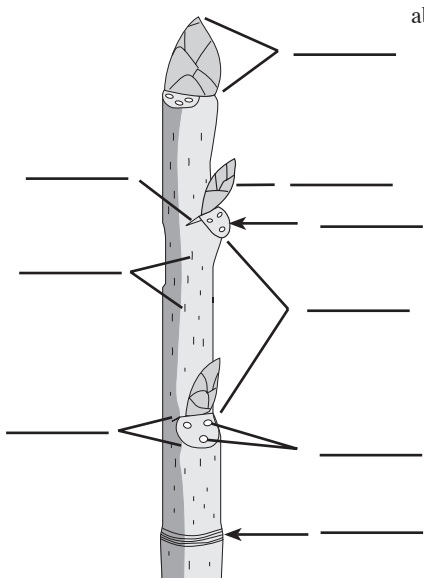
Stem Types



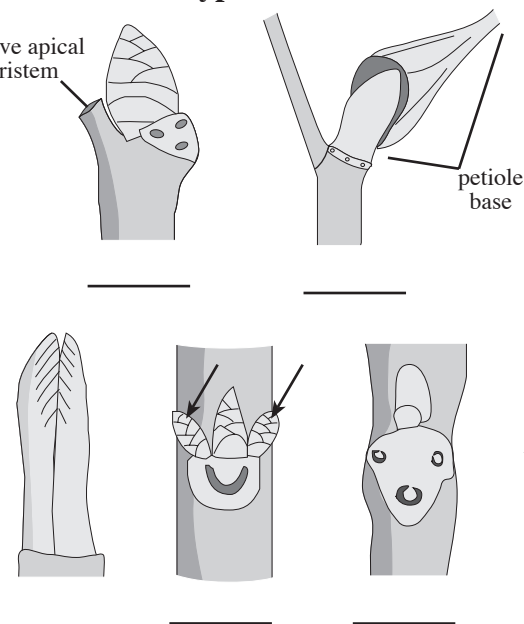
Branching Pattern



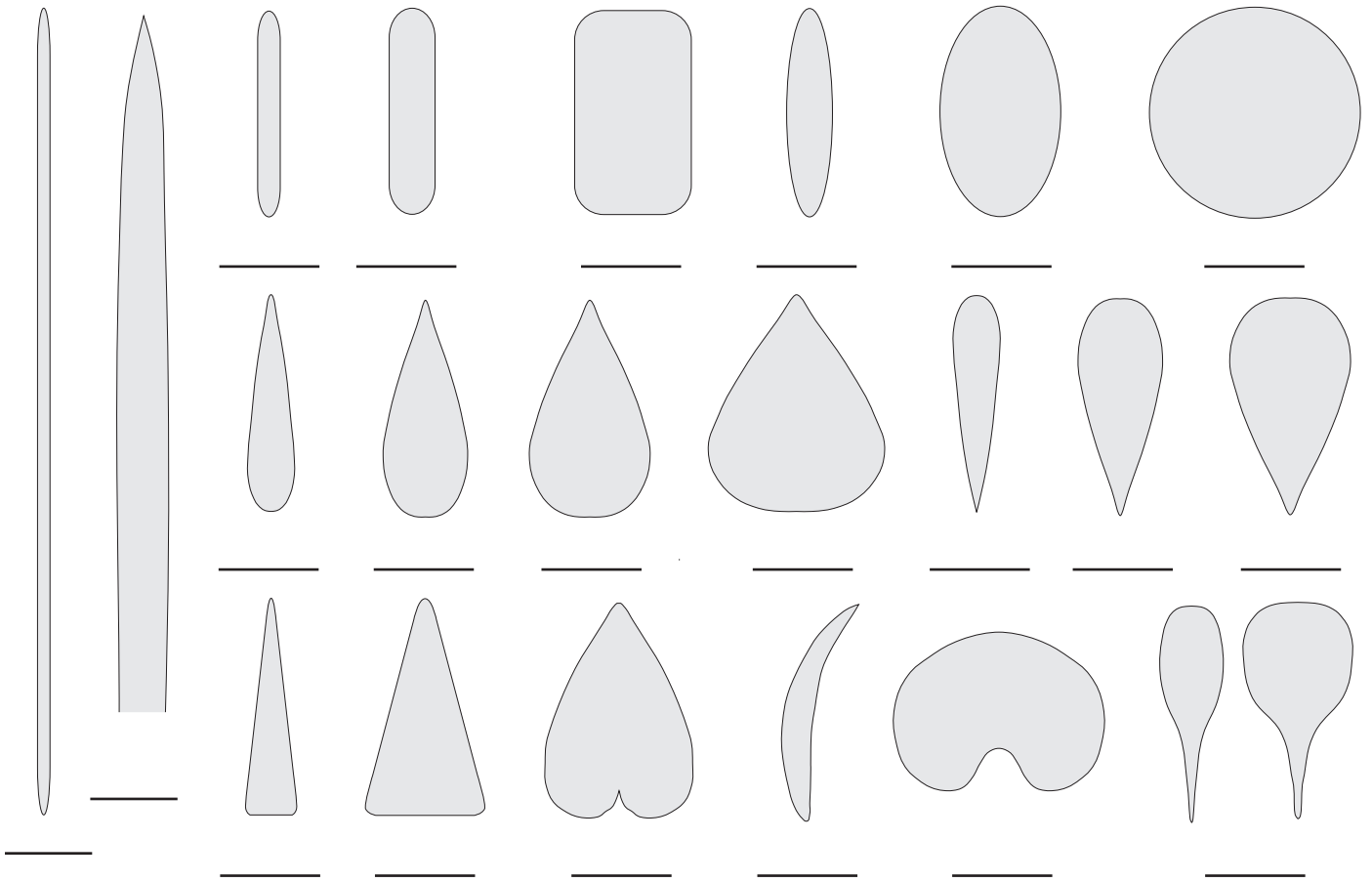
Twig Parts



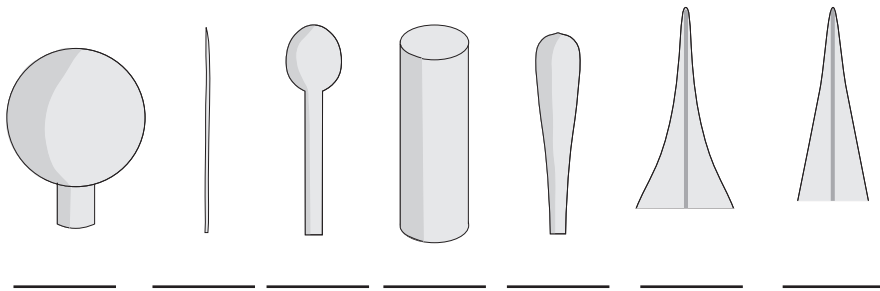
Bud Types / Parts



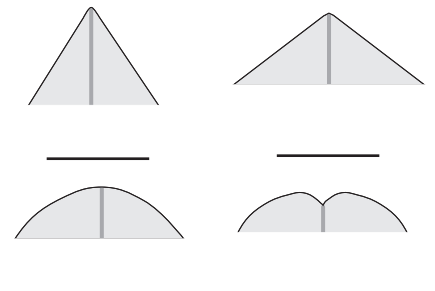
Shape: Plane



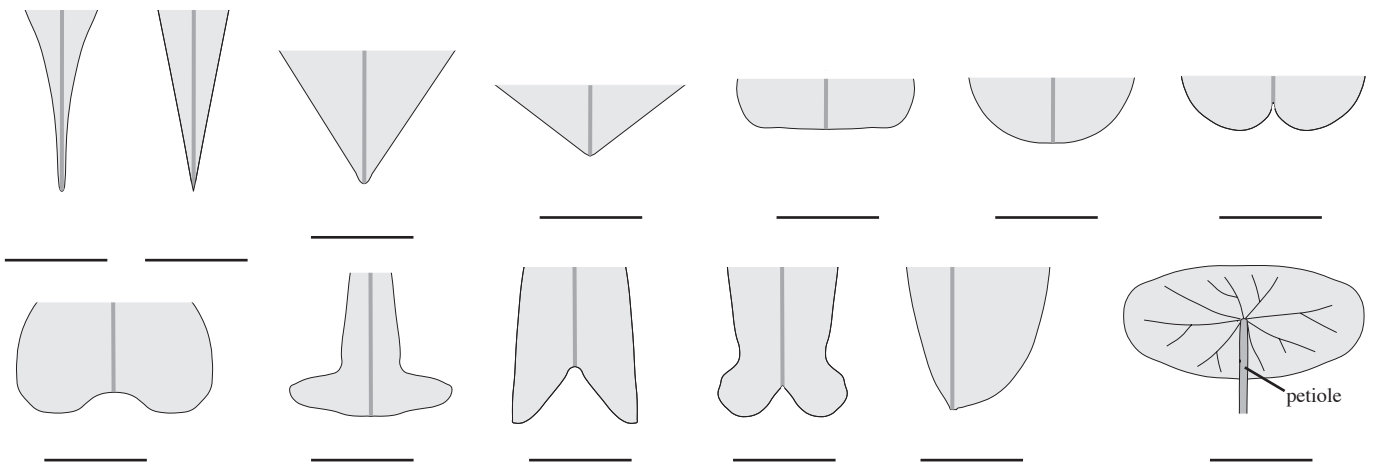
Shape: 3-D



Apex Shape

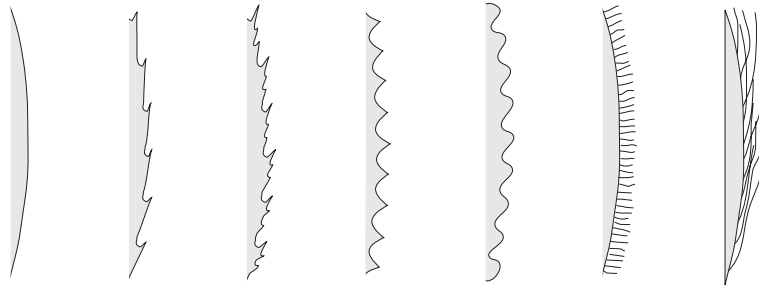


Base Shape

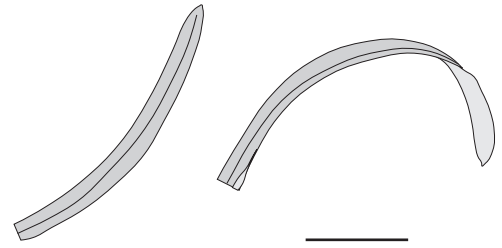


petiole

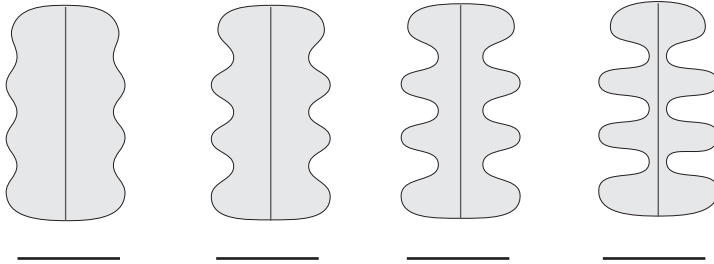
Margin



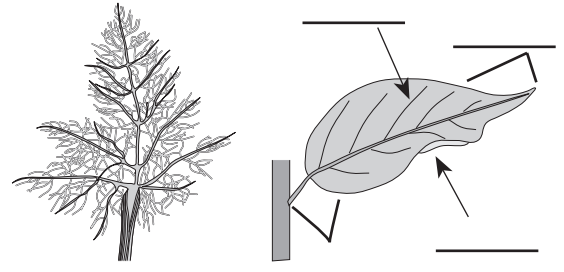
Posture: Transverse



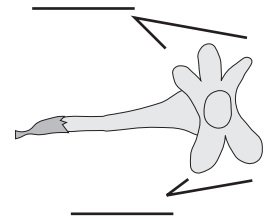
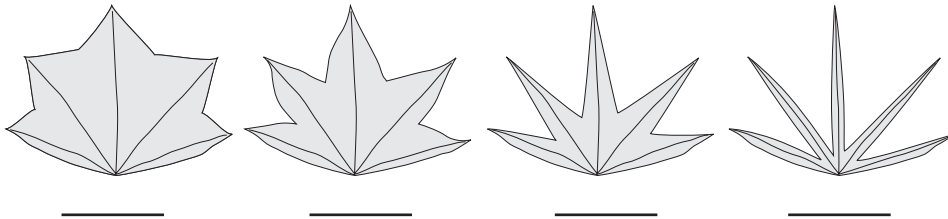
Division



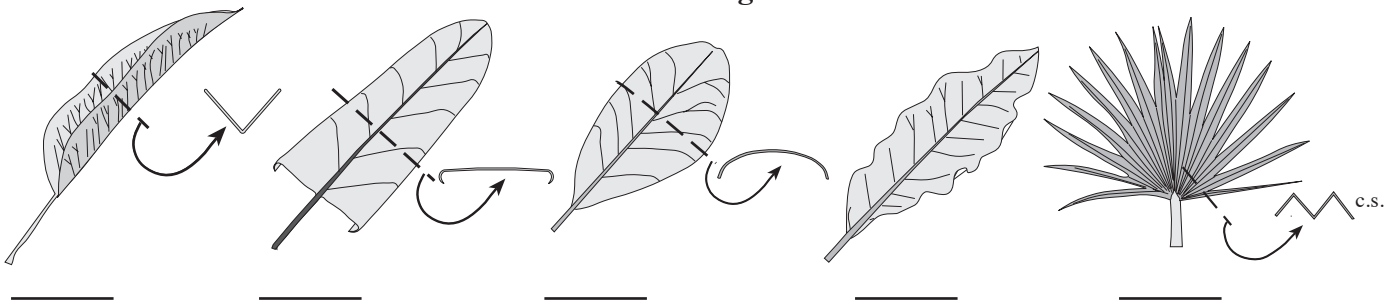
Position



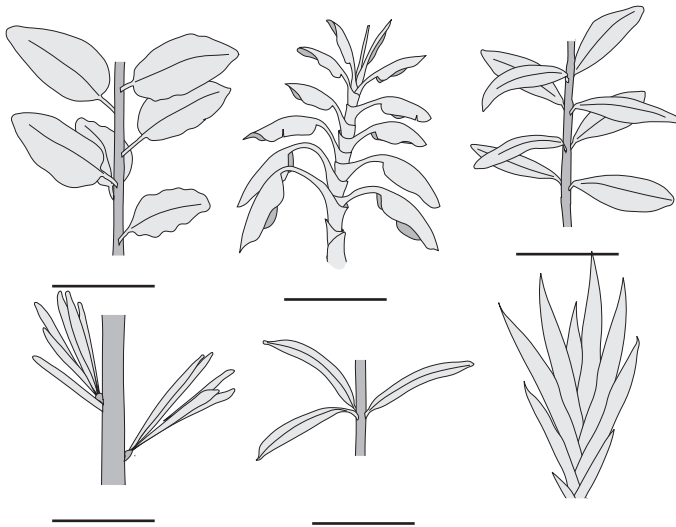
Position



Posture: Longitudinal



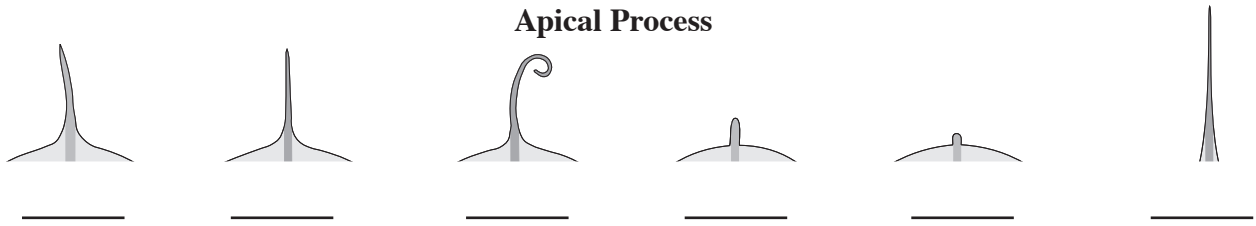
Leaf Arrangement



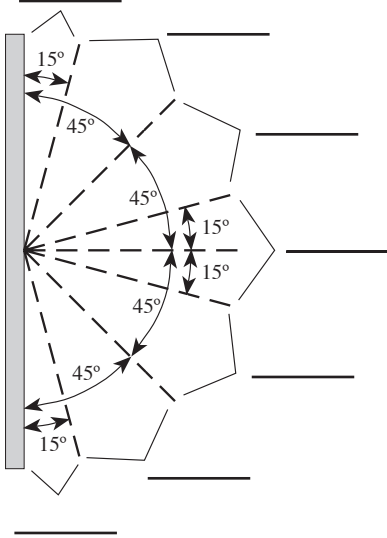
Leaf Position



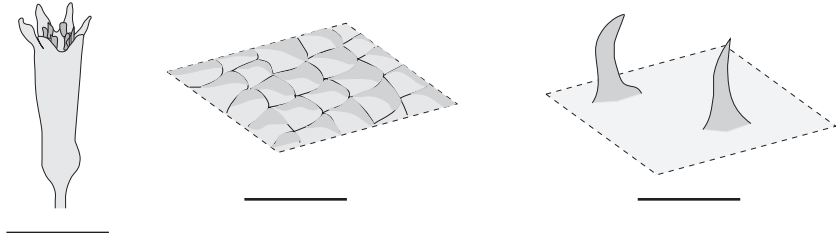
Apical Process



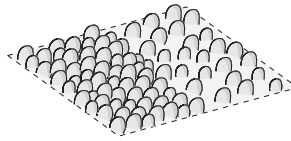
Orientation



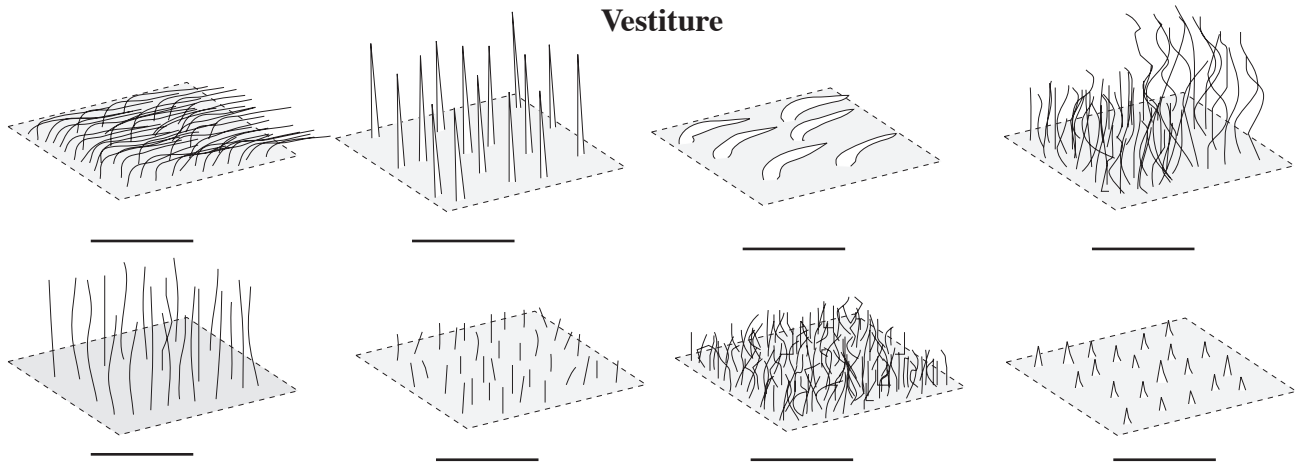
Configuration



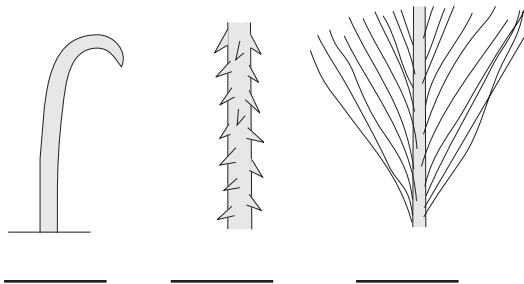
Epidermal Excrecence



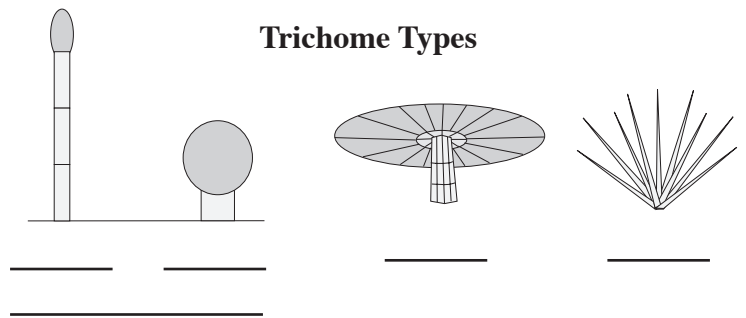
Vestiture



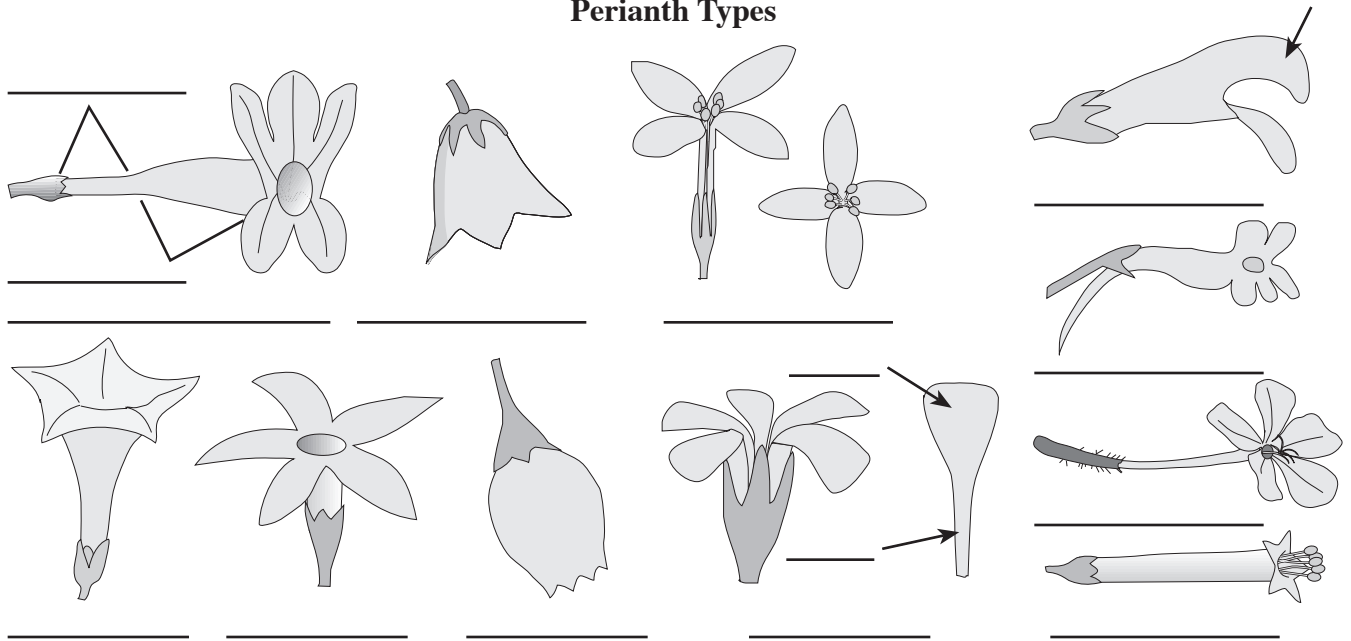
Bristle Types



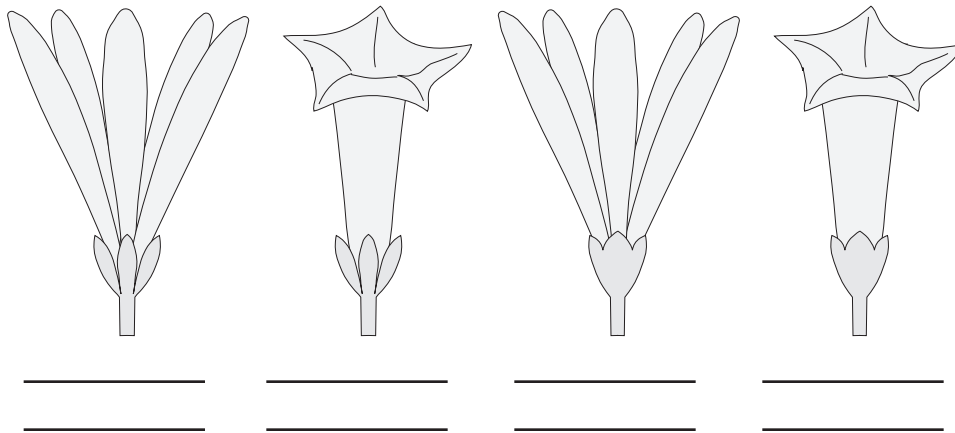
Trichome Types



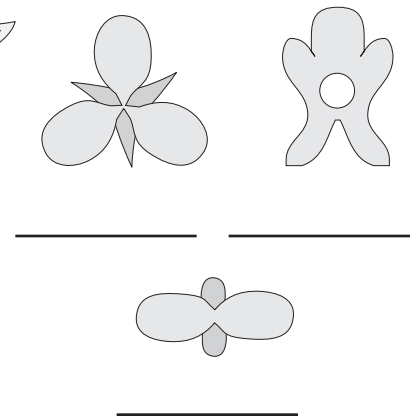
Perianth Types



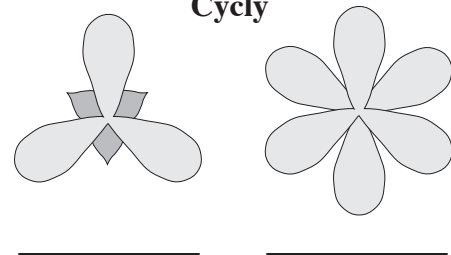
**Calyx Fusion (top line)
Corolla Fusion (bottom line)**



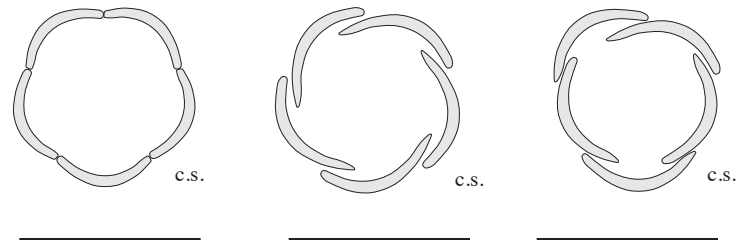
Symmetry



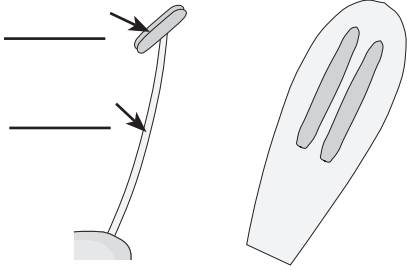
Cycly



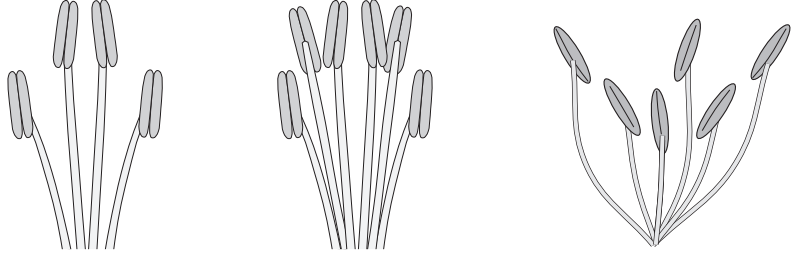
Aestivation



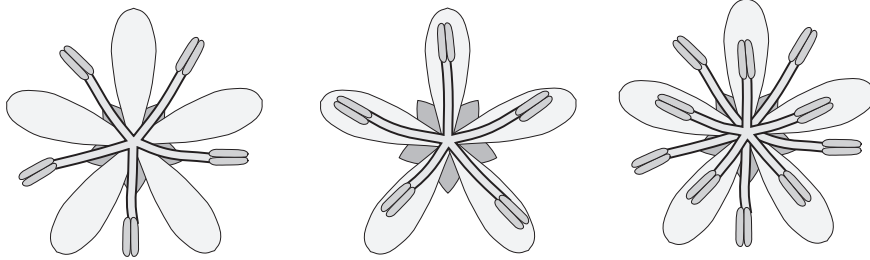
Stamen Types / Parts



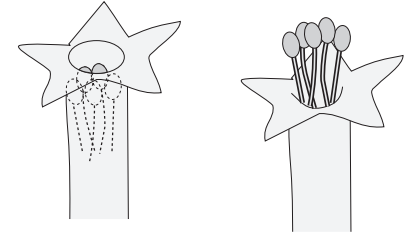
Stamen Arrangement



Stamen Cycle

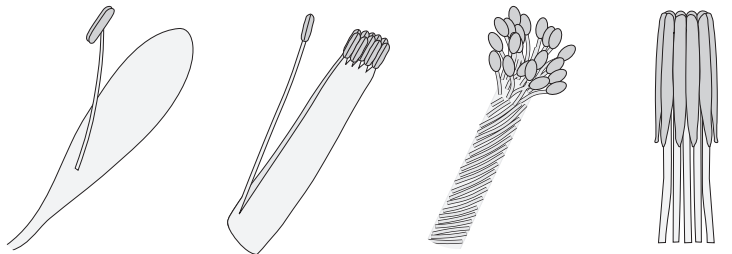


Stamen Insertion

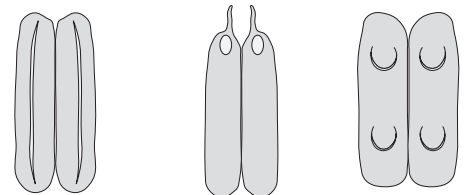


Stamen Position

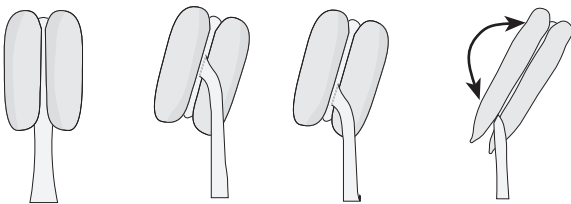
Androecial / Stamen Fusion



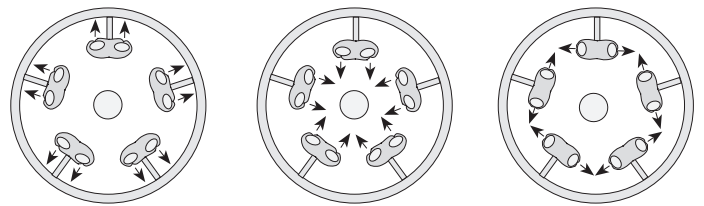
Anther Dehiscence Types



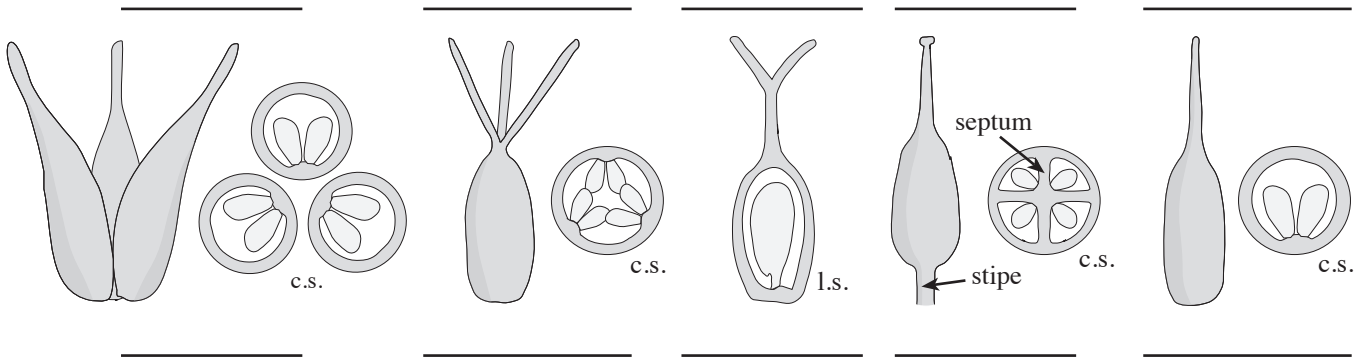
Anther Attachment



Anther Dehiscence Direction

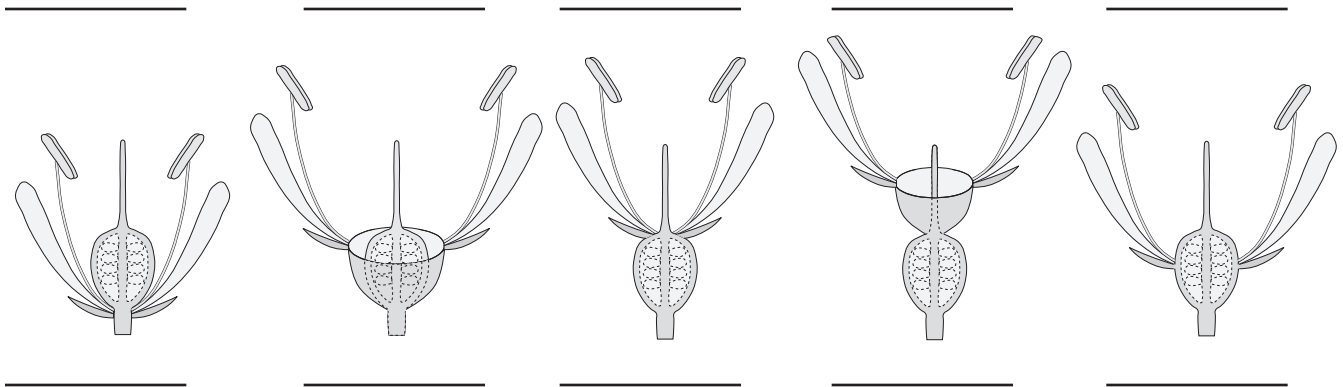


Gynoecial Fusion



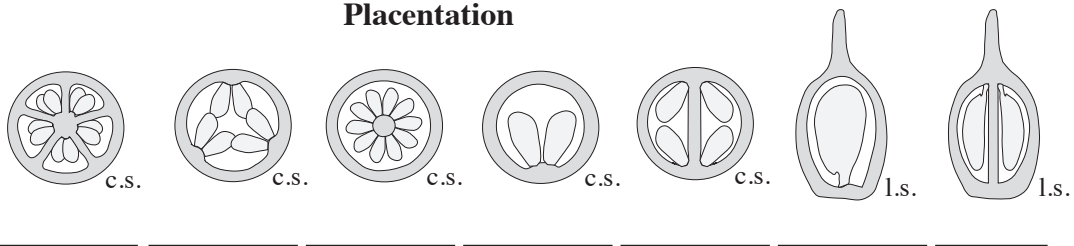
Carpel Number

Ovary Position

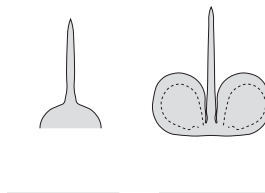


Perianth-Androecial Position

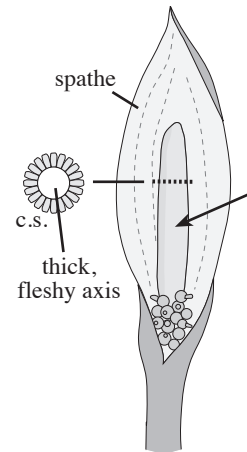
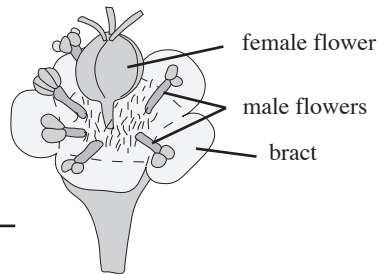
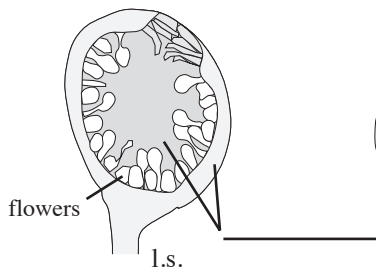
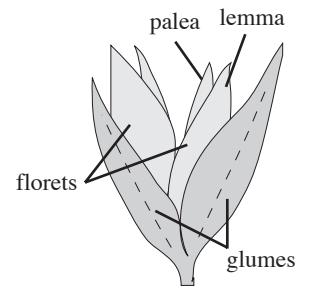
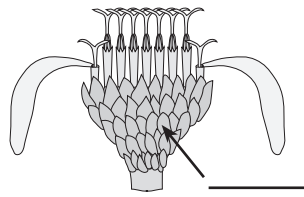
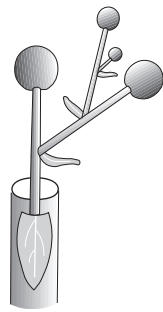
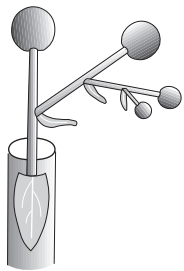
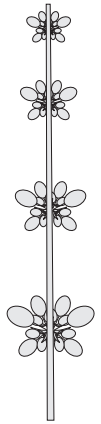
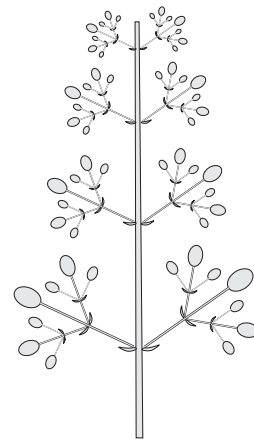
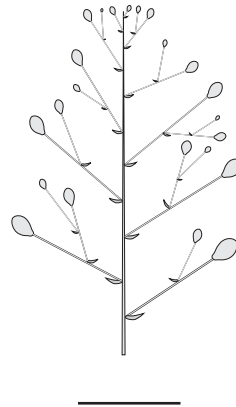
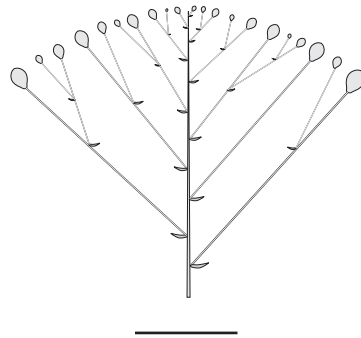
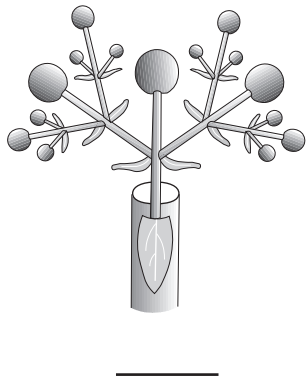
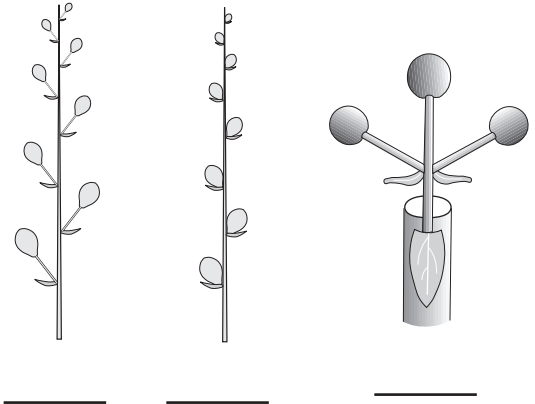
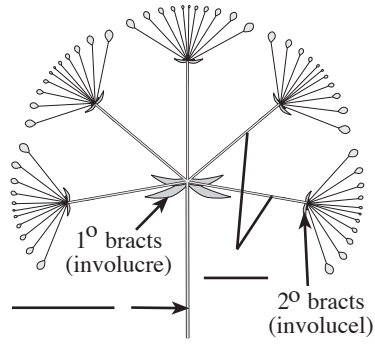
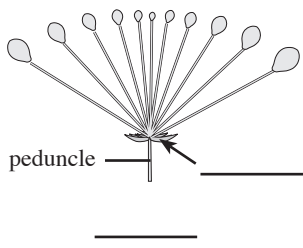
Placentation



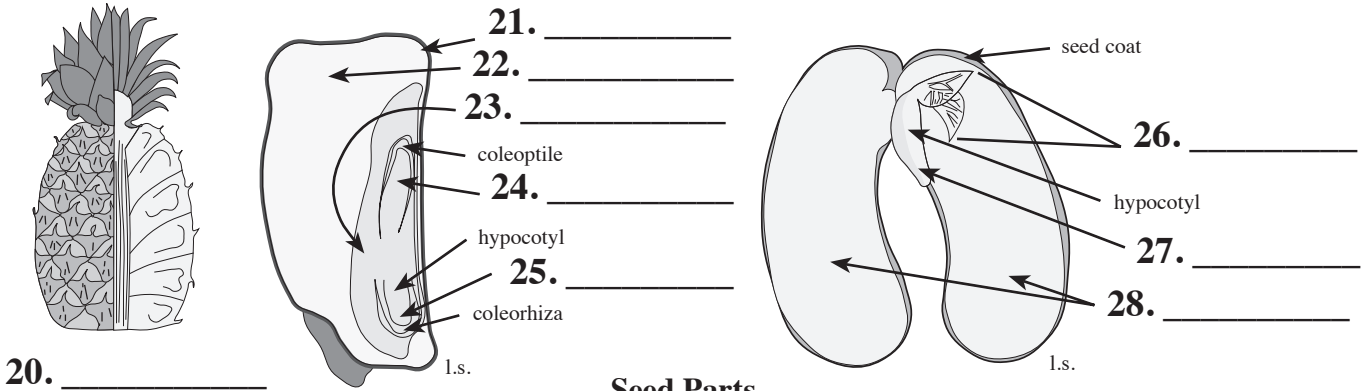
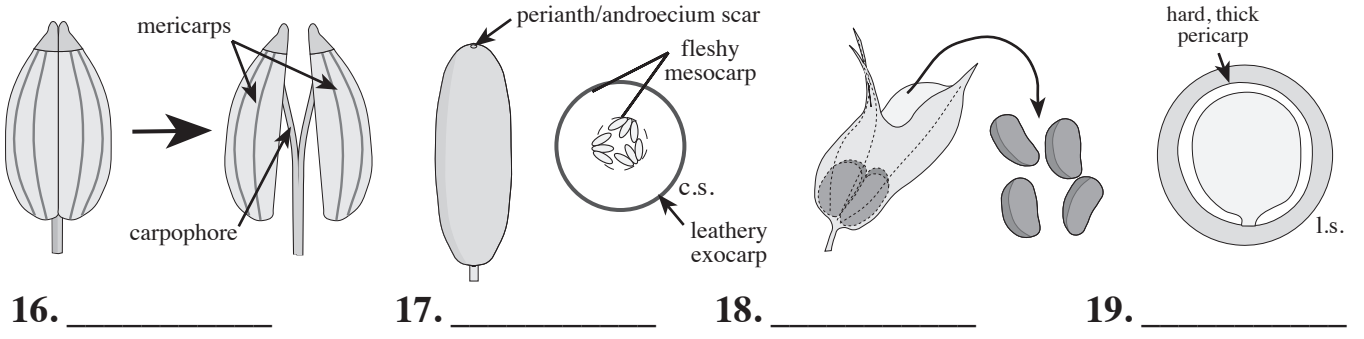
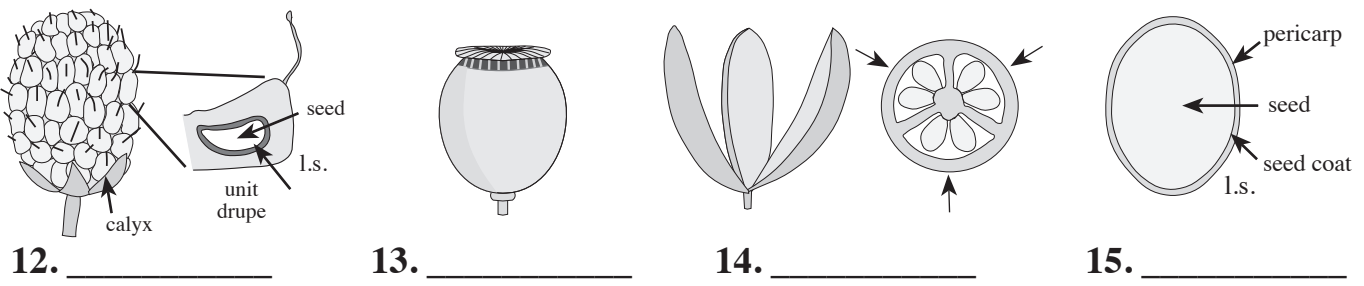
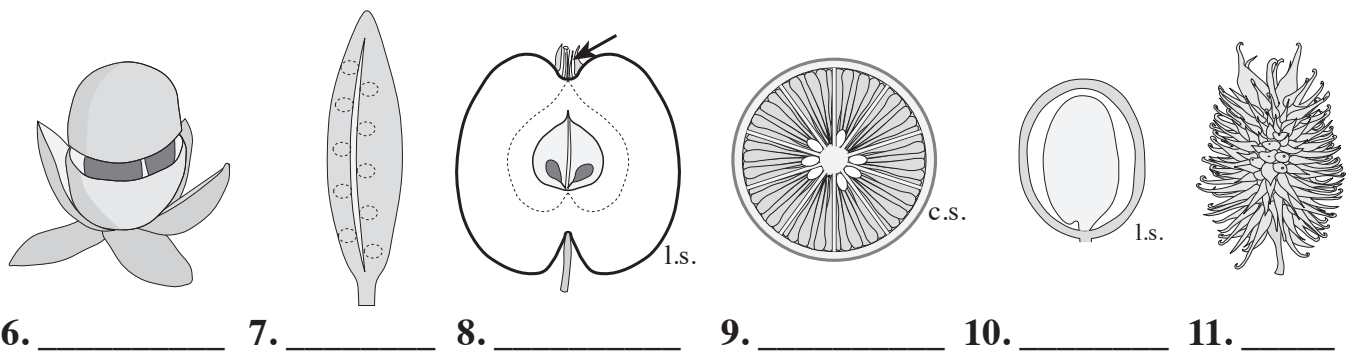
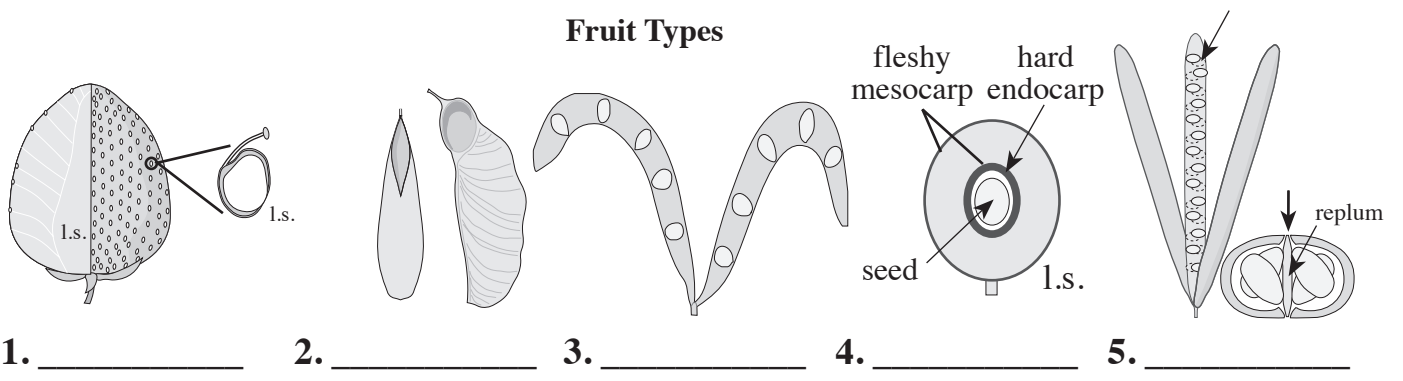
Style Position



Inflorescence Types



Fruit Types



Seed Parts