

## *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?

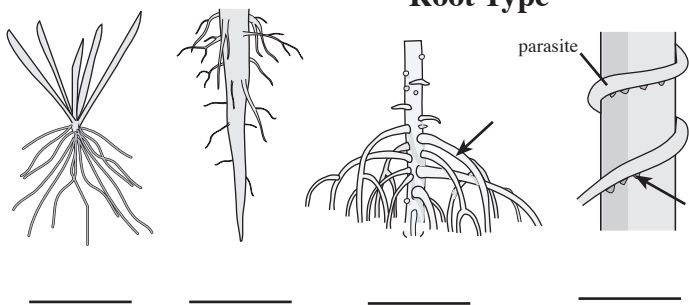
Surface refers to 3 features: configuration, epidermal excrescence, and vestiture. How do they differ?

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

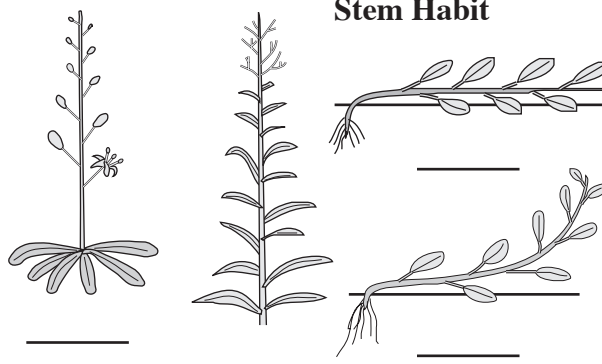
What is the difference between annual, biennial, and perennial? For what character are these character states?

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

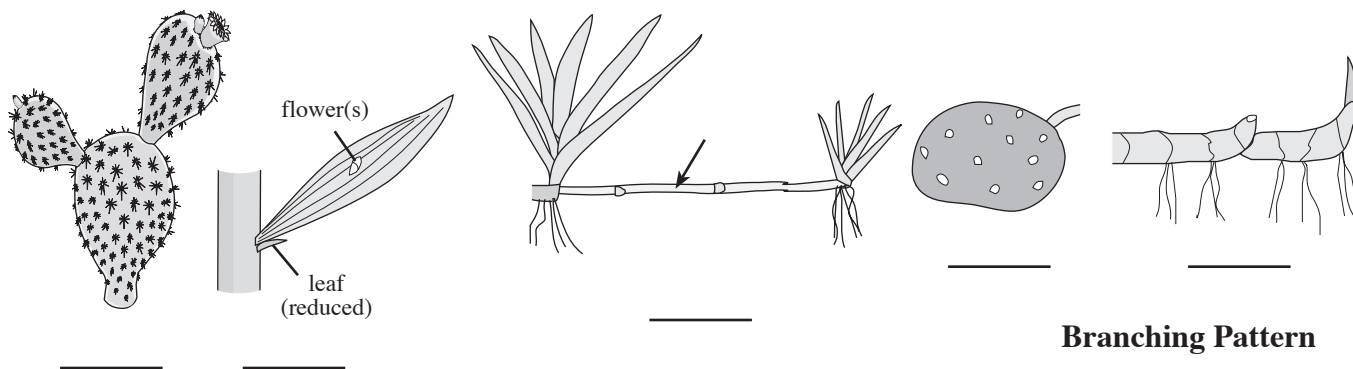
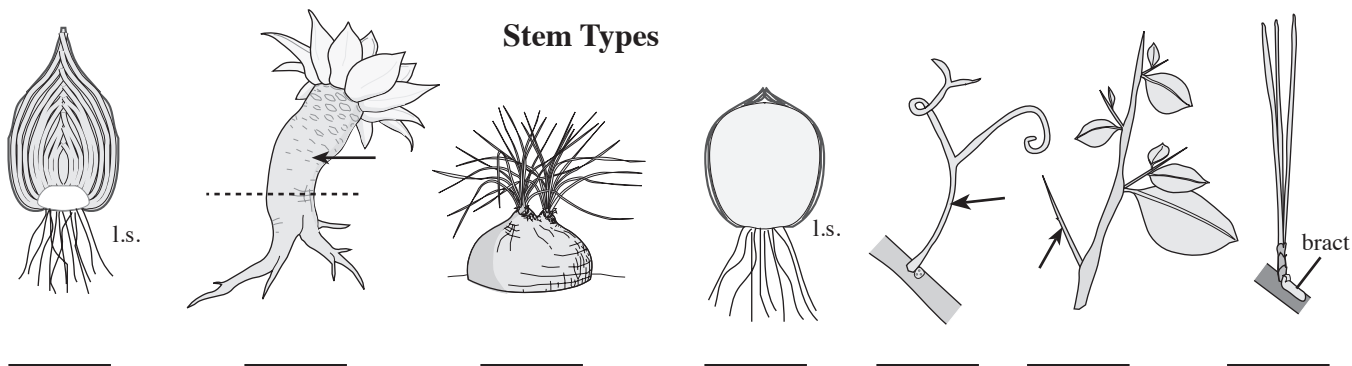
**Root Type**



**Stem Habit**

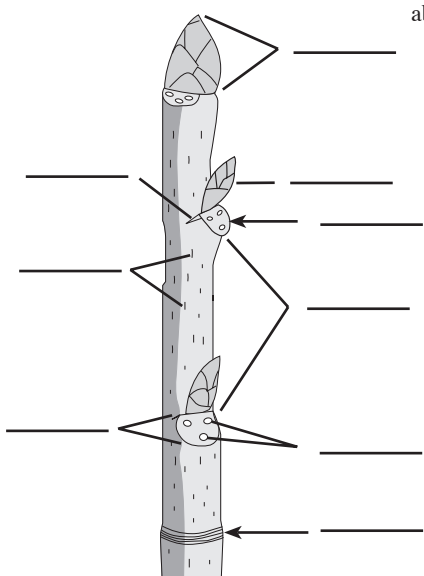


**Stem Types**

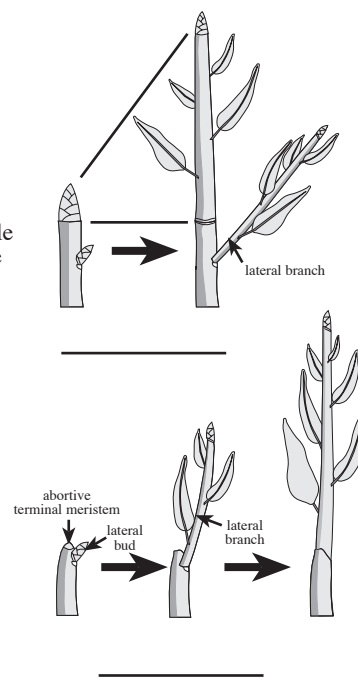
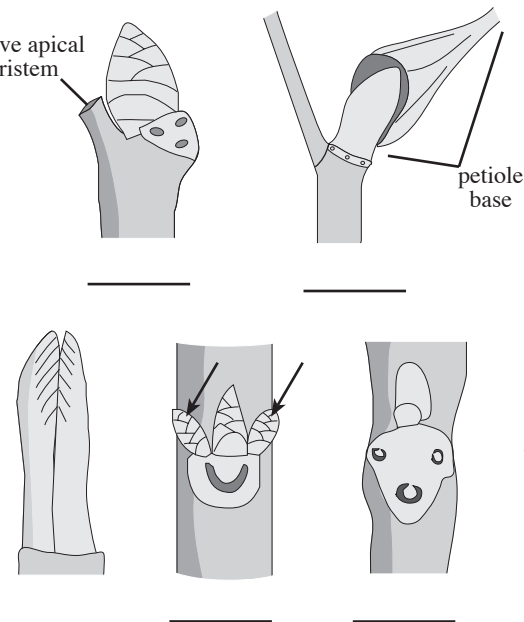


**Branching Pattern**

**Twig Parts**

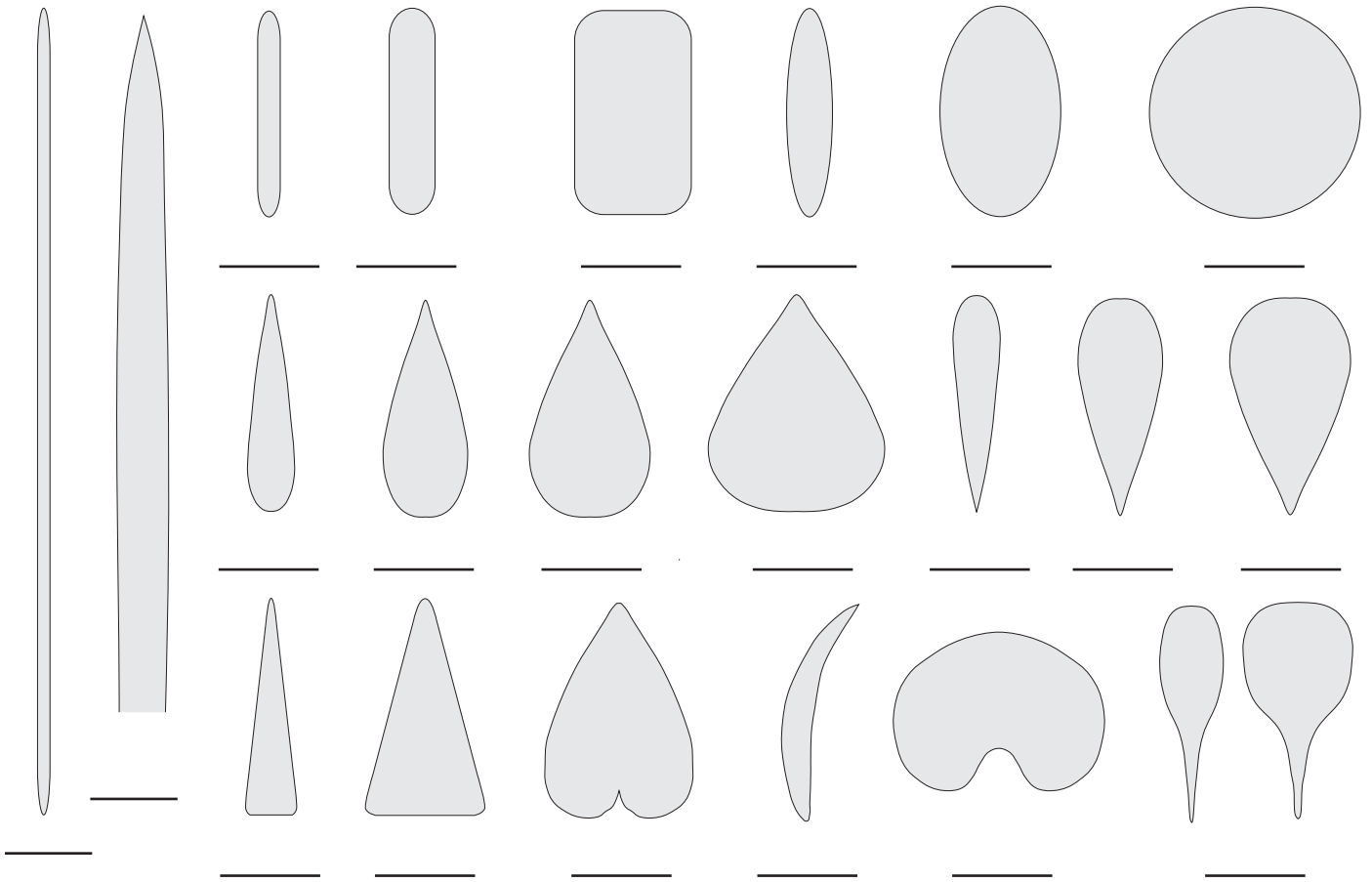


**Bud Types / Parts**

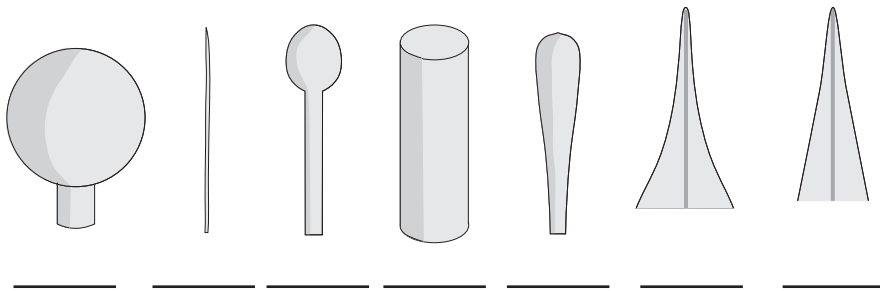




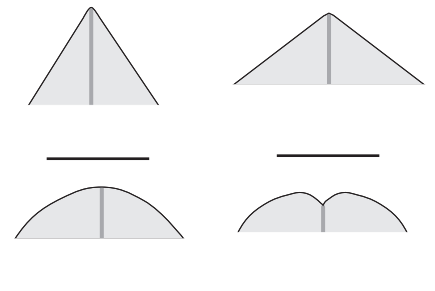
**Shape: Plane**



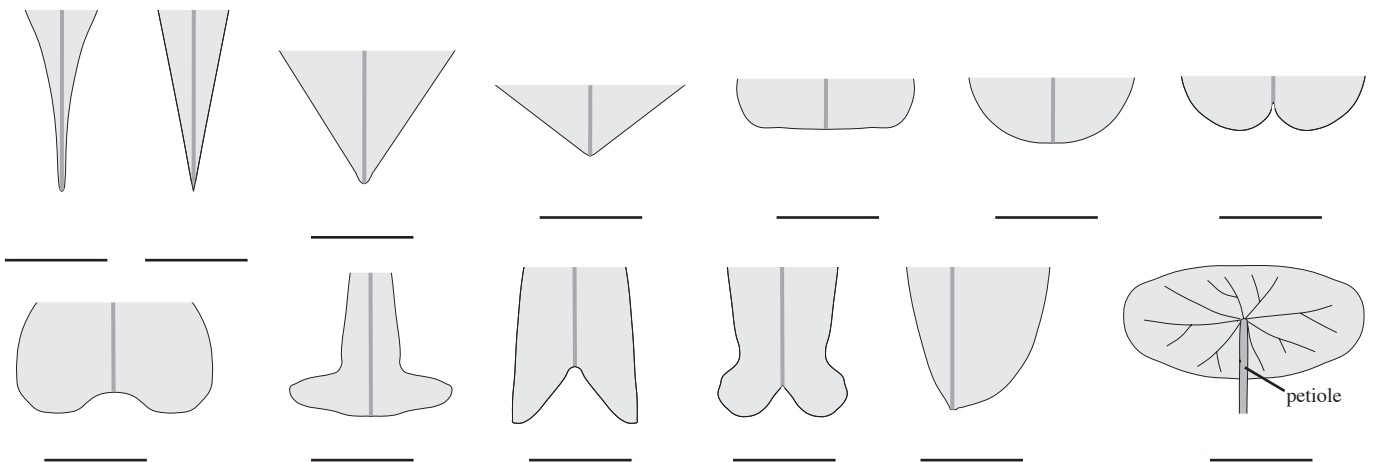
**Shape: 3-D**



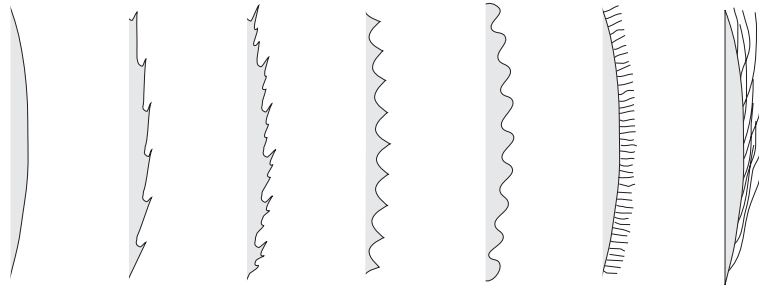
**Apex Shape**



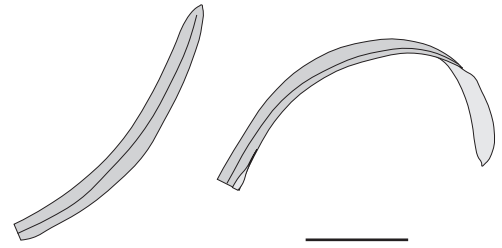
**Base Shape**



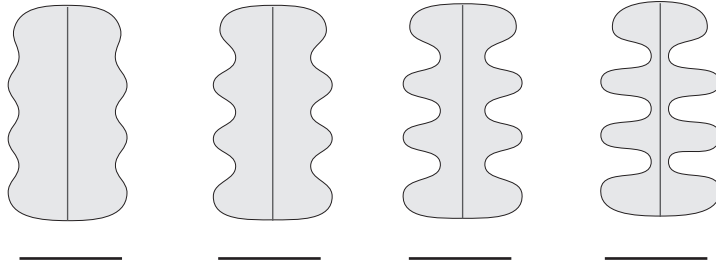
**Margin**



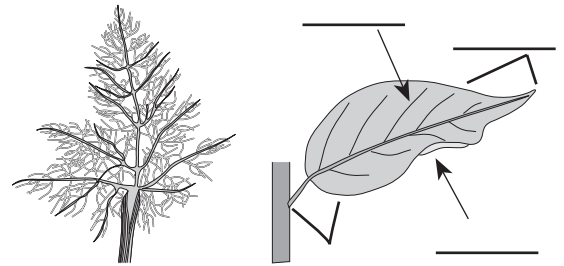
**Posture: Transverse**



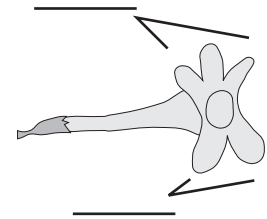
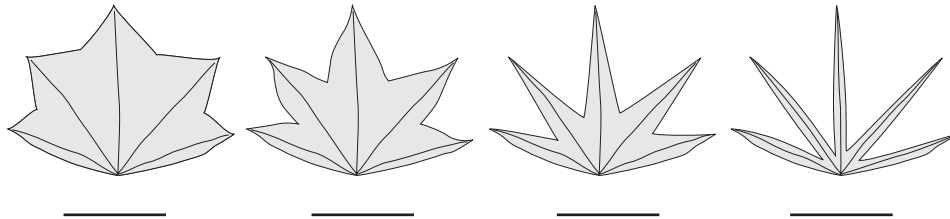
**Division**



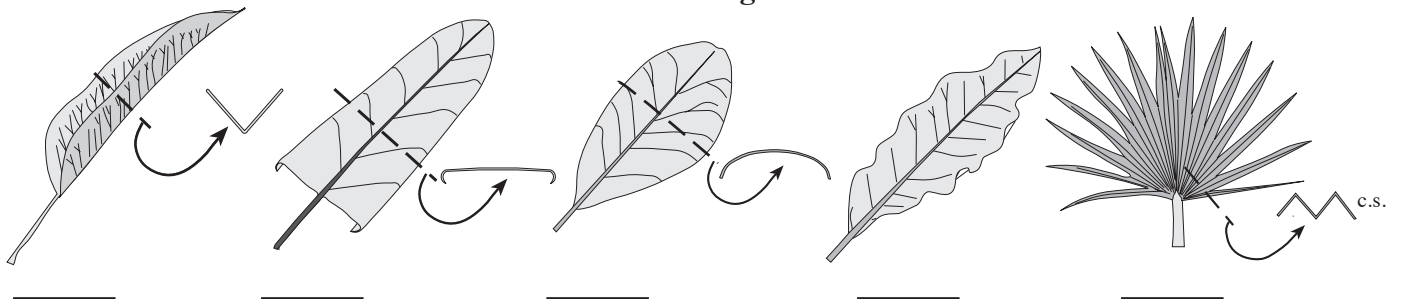
**Position**



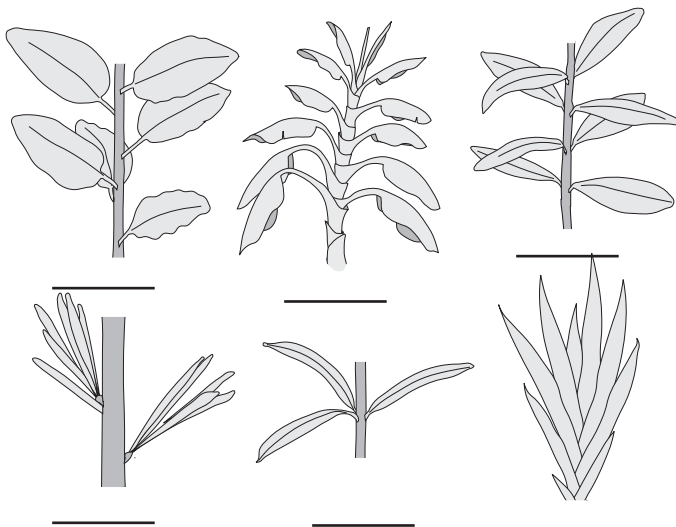
**Position**



**Posture: Longitudinal**



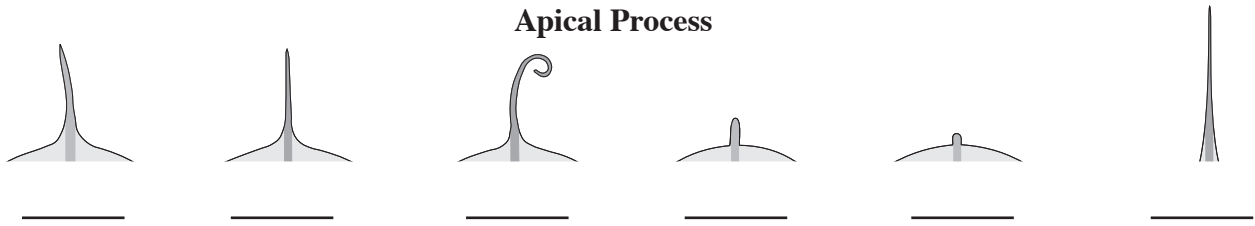
**Leaf Arrangement**



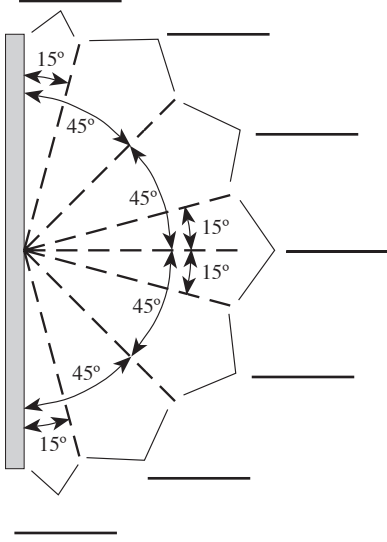
**Leaf Position**



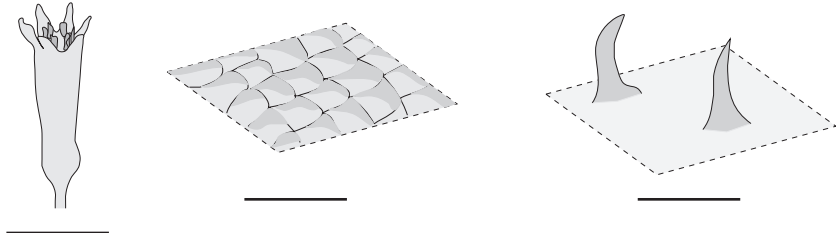
**Apical Process**



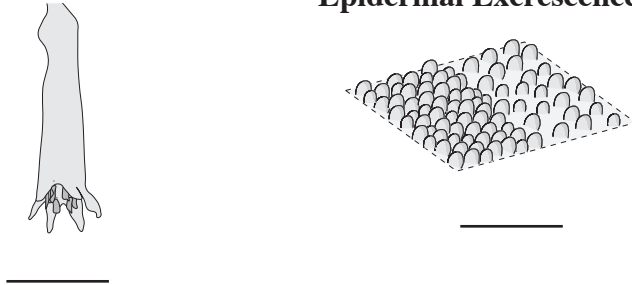
**Orientation**



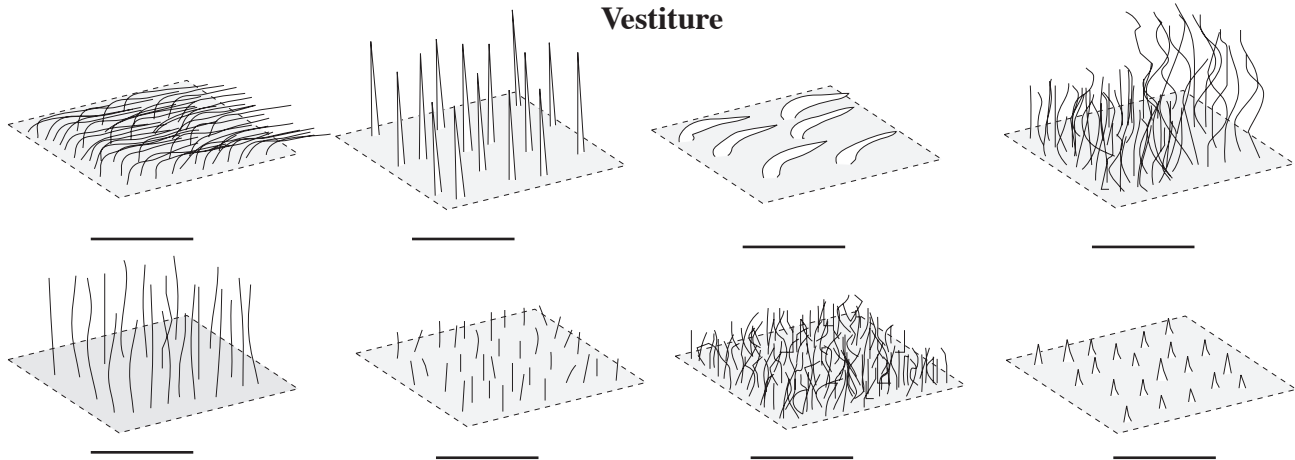
**Configuration**



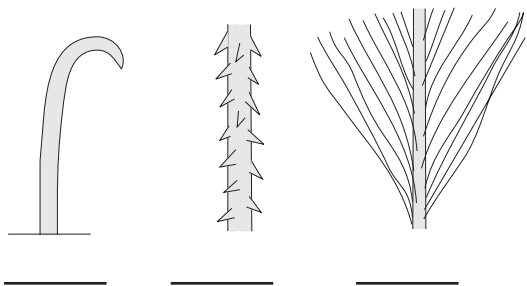
**Epidermal Excrecence**



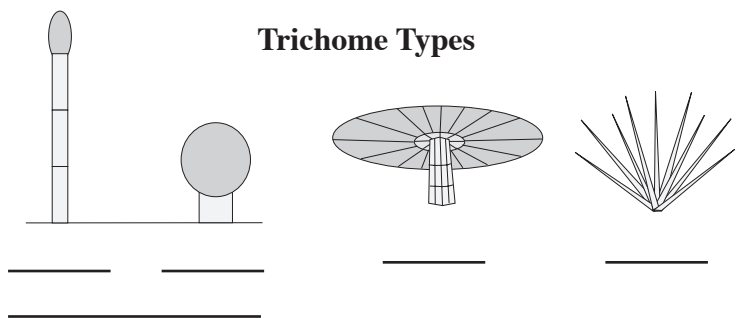
**Vestiture**



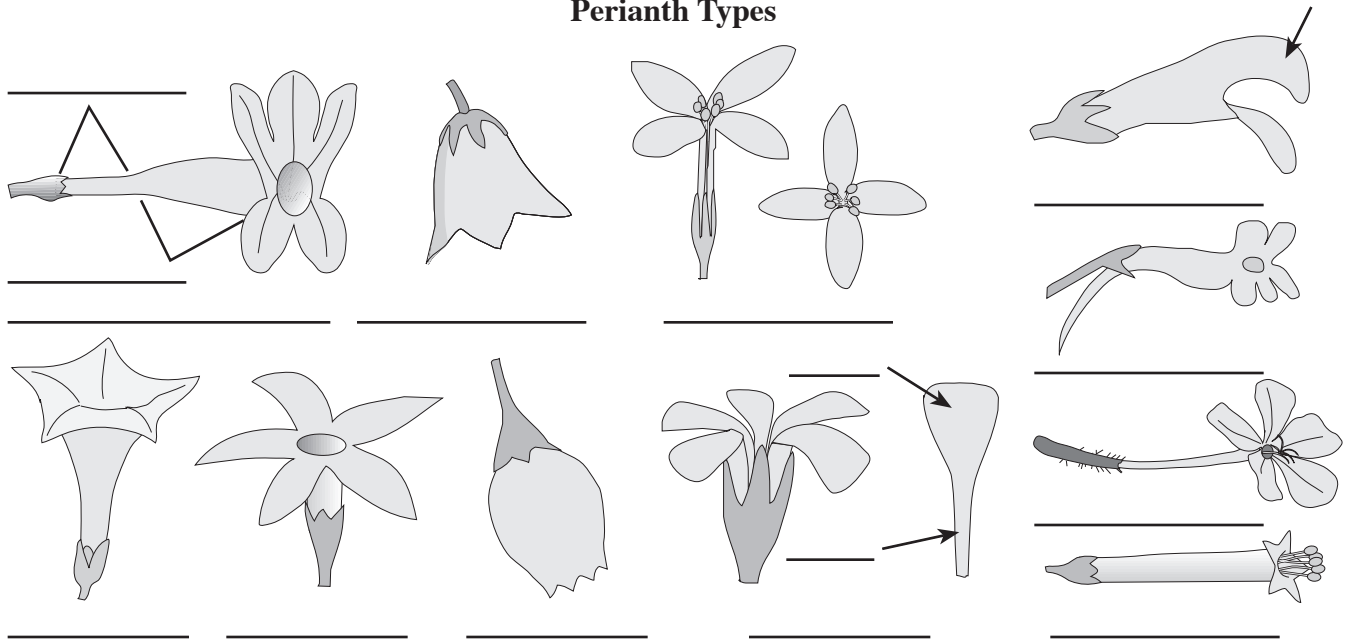
**Bristle Types**



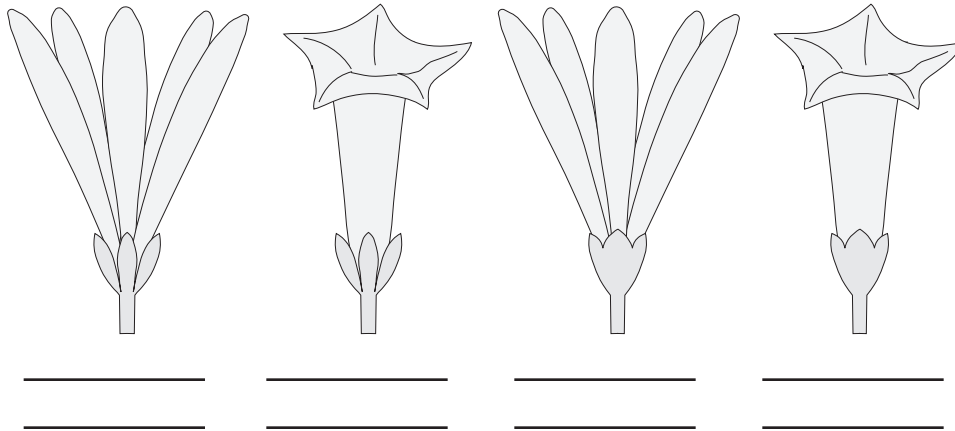
**Trichome Types**



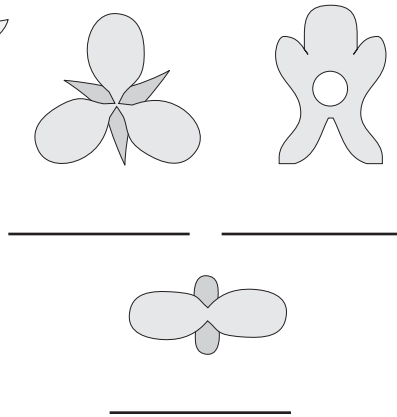
**Perianth Types**



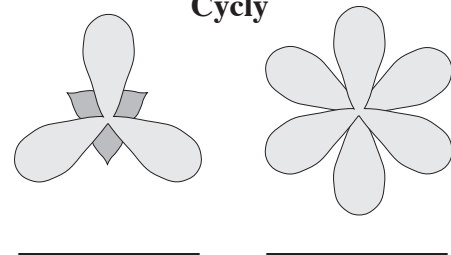
**Calyx Fusion (top line)  
Corolla Fusion (bottom line)**



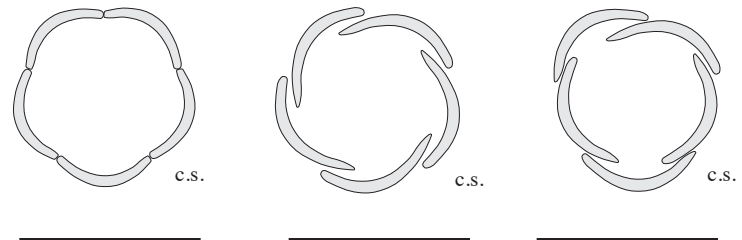
**Symmetry**



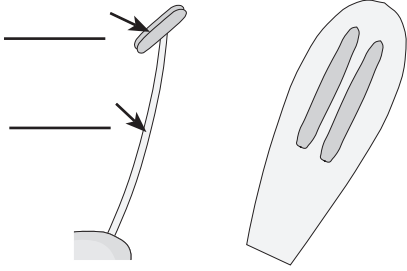
**Cycly**



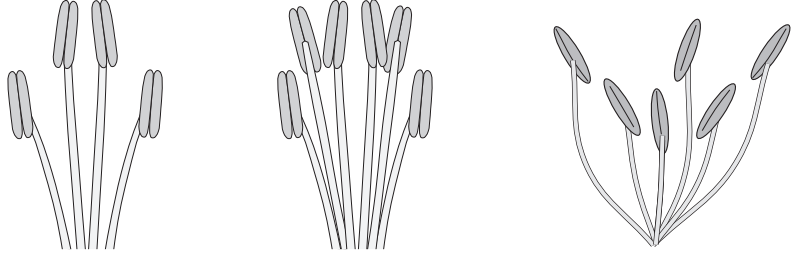
**Aestivation**



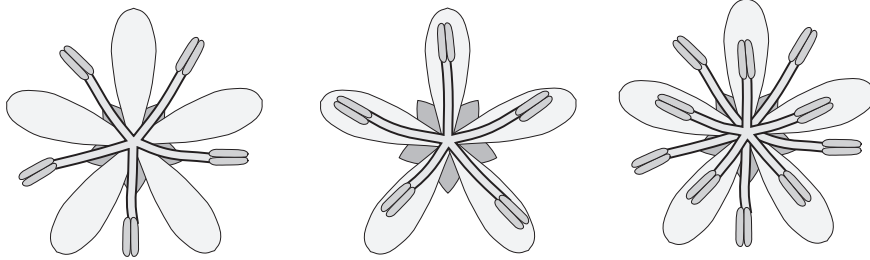
**Stamen Types / Parts**



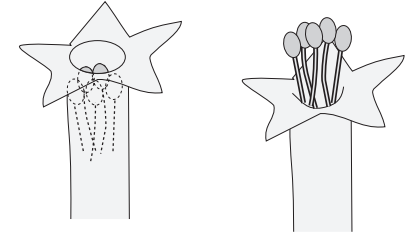
**Stamen Arrangement**



**Stamen Cycle**

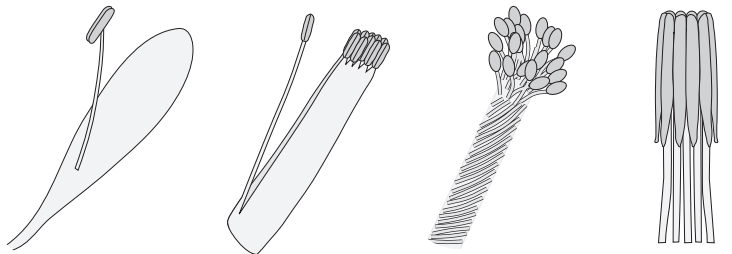


**Stamen Insertion**

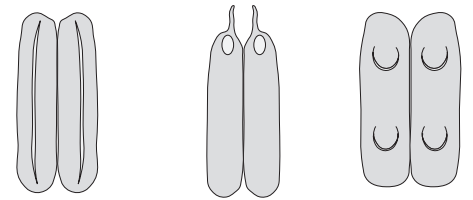


**Stamen Position**

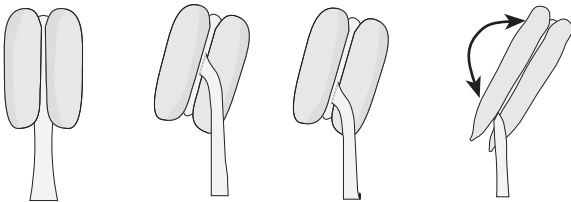
**Androecial / Stamen Fusion**



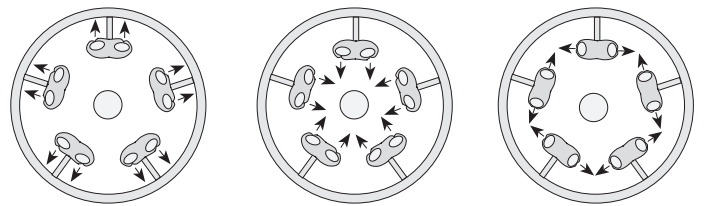
**Anther Dehiscence Types**



**Anther Attachment**

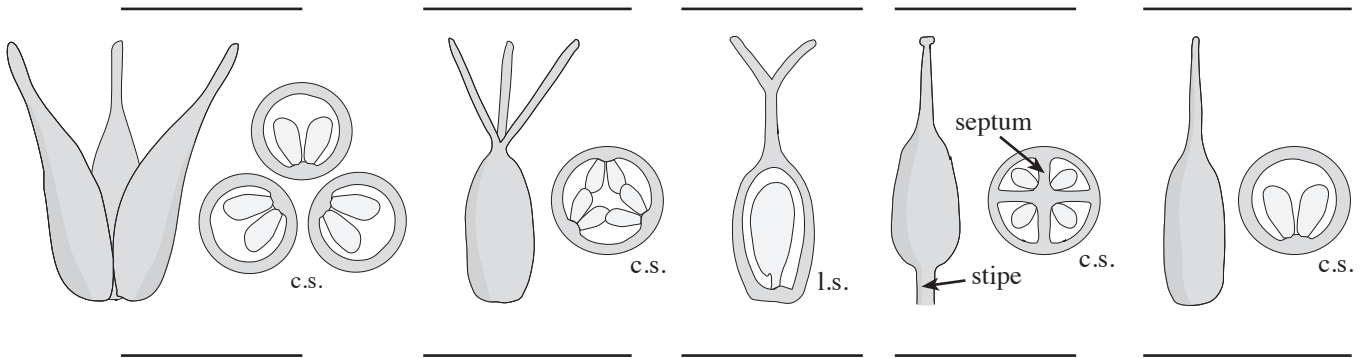


**Anther Dehiscence Direction**



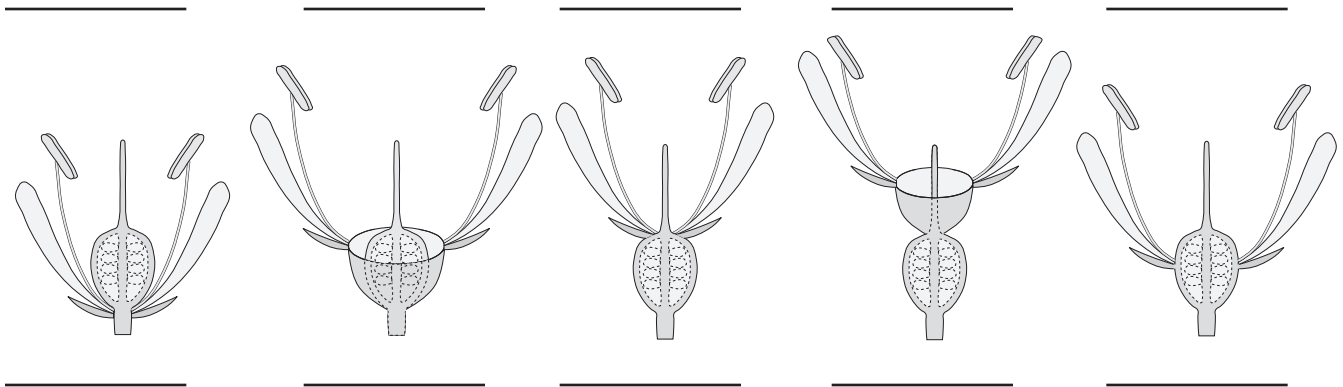


**Gynoecial Fusion**



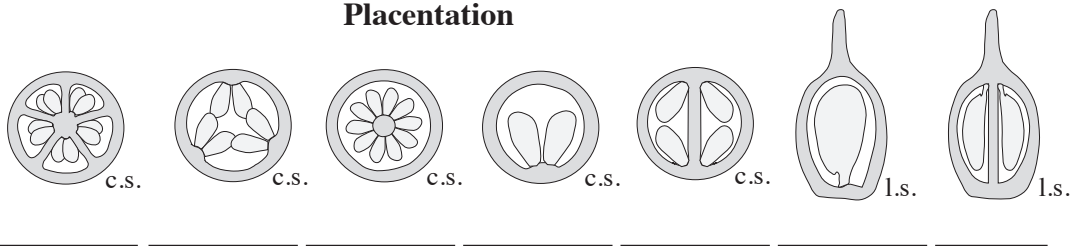
**Carpel Number**

**Ovary Position**

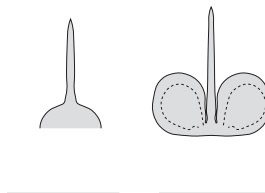


**Perianth-Androecial Position**

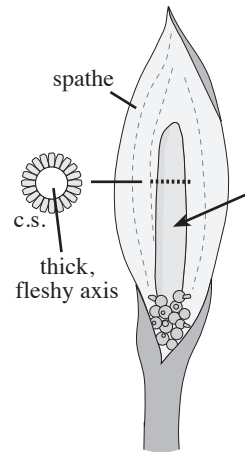
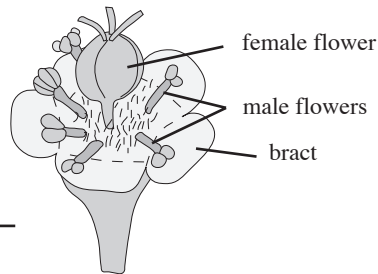
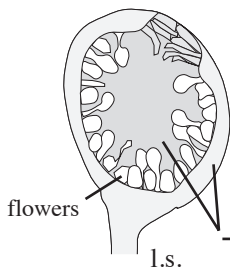
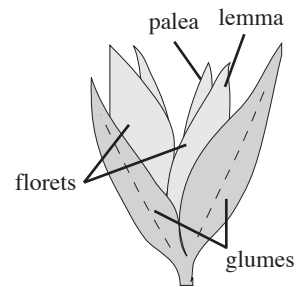
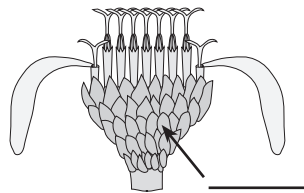
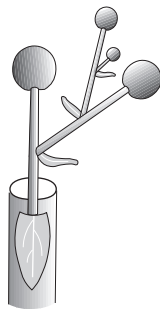
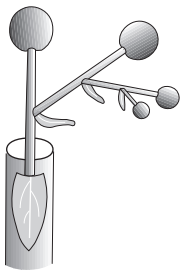
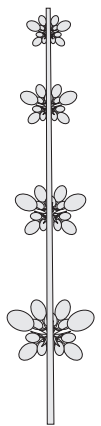
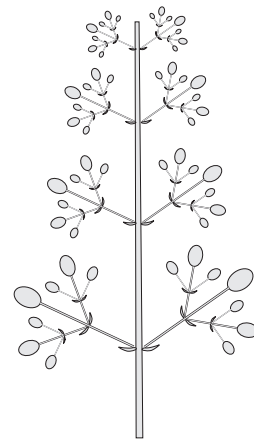
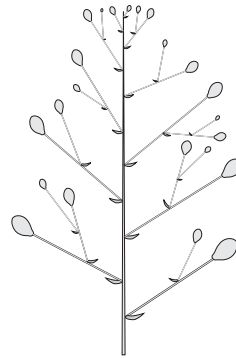
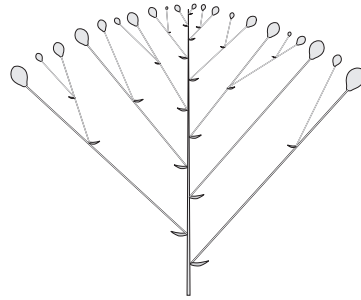
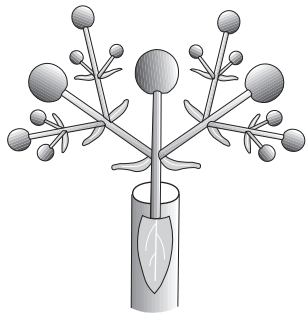
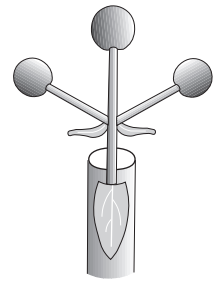
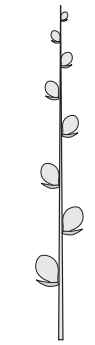
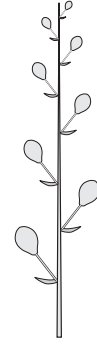
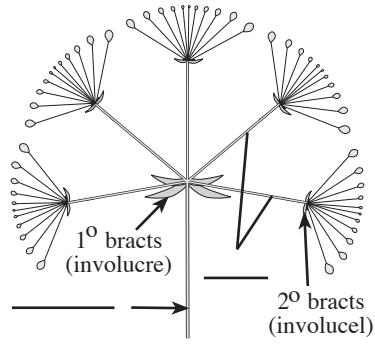
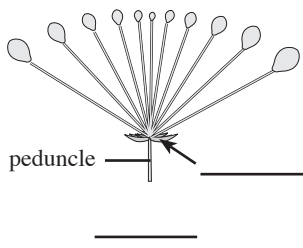
**Placentation**



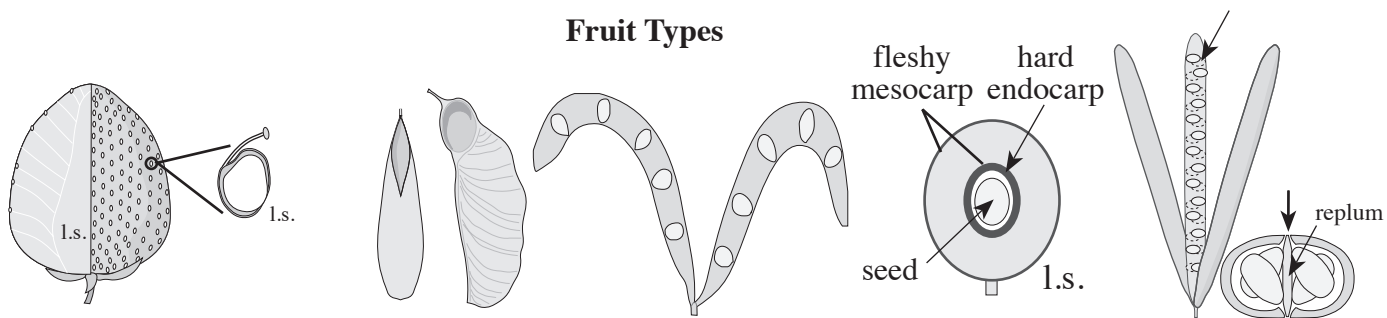
**Style Position**



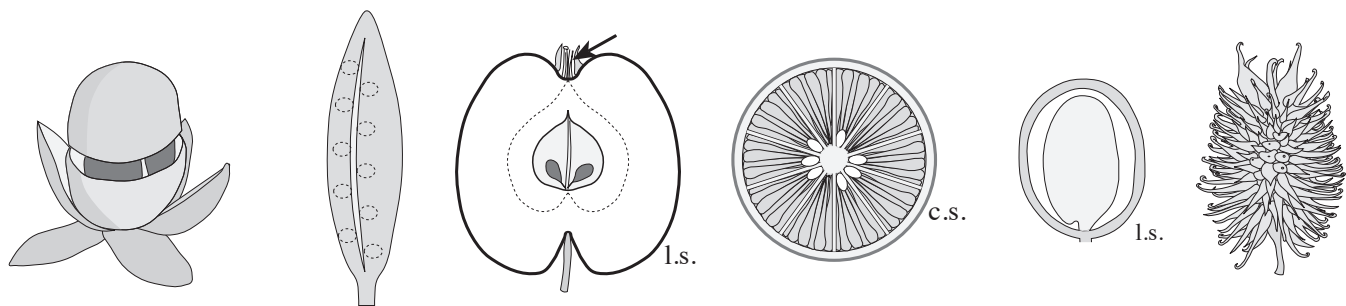
**Inflorescence Types**



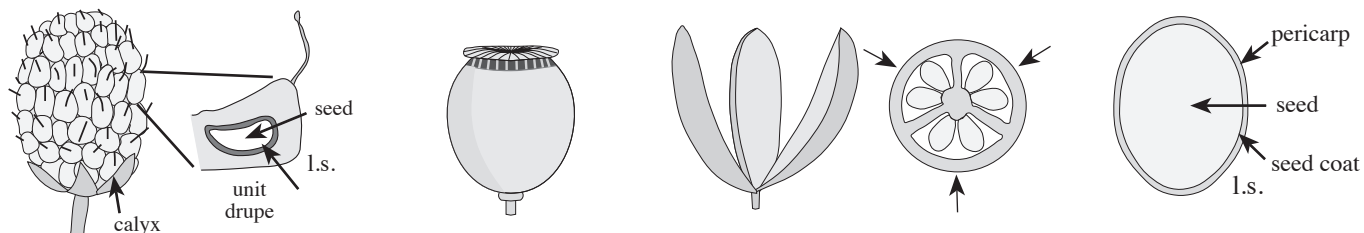
**Fruit Types**



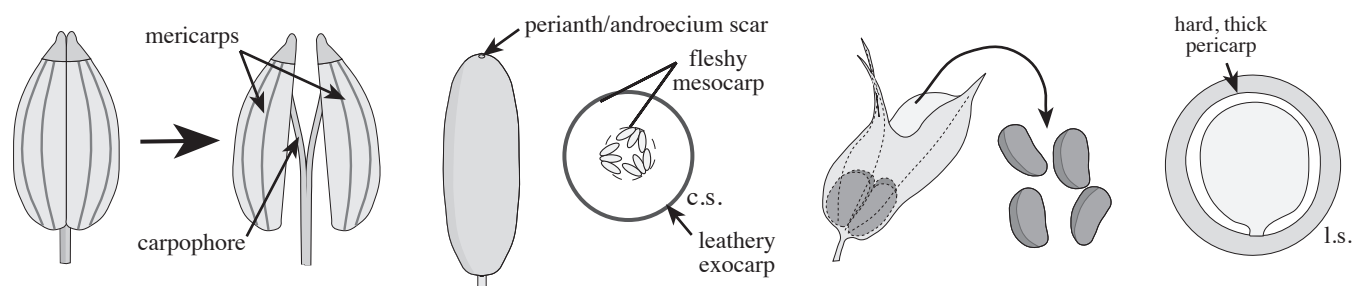
1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_



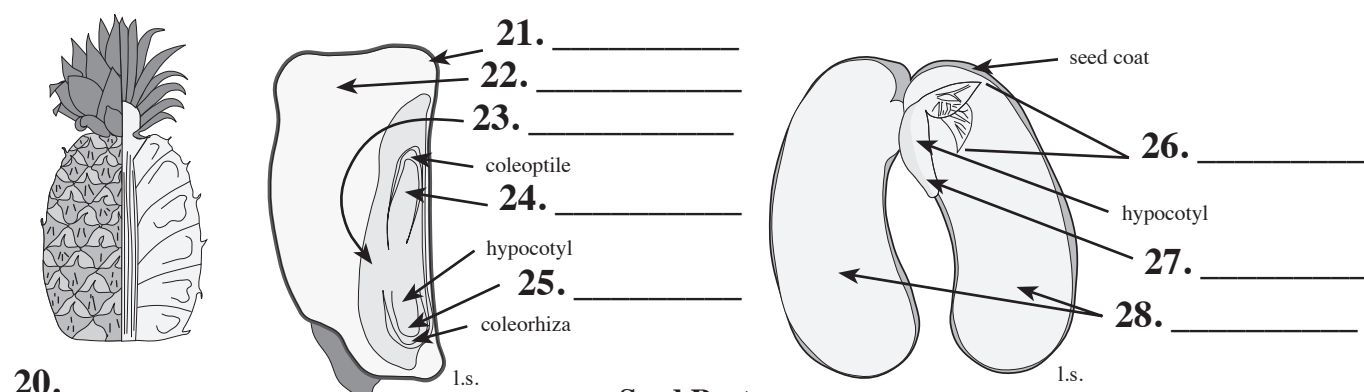
6. \_\_\_\_\_ 7. \_\_\_\_\_ 8. \_\_\_\_\_ 9. \_\_\_\_\_ 10. \_\_\_\_\_ 11. \_\_\_\_\_



12. \_\_\_\_\_ 13. \_\_\_\_\_ 14. \_\_\_\_\_ 15. \_\_\_\_\_



16. \_\_\_\_\_ 17. \_\_\_\_\_ 18. \_\_\_\_\_ 19. \_\_\_\_\_



20. \_\_\_\_\_

**Seed Parts**