

Part 5 Flowers and More

Name:

Part 5 Lesson 1 Leaf Identification

Find three leaves or more and create a rubbing in the space below using the side of a crayon.

Define a leaf in or around the rubbing? Once we learn about leaf identification can you describe some identifiable leaf structures / name the tree this leaf came from?

Blade: The entire _____ unit. Sometimes this is made up of several smaller leaflets.

Veins: Contain _____ tissues.

Leaf Margin: The _____ of the leaf.

Leaf Base: Name for the blade close to the _____

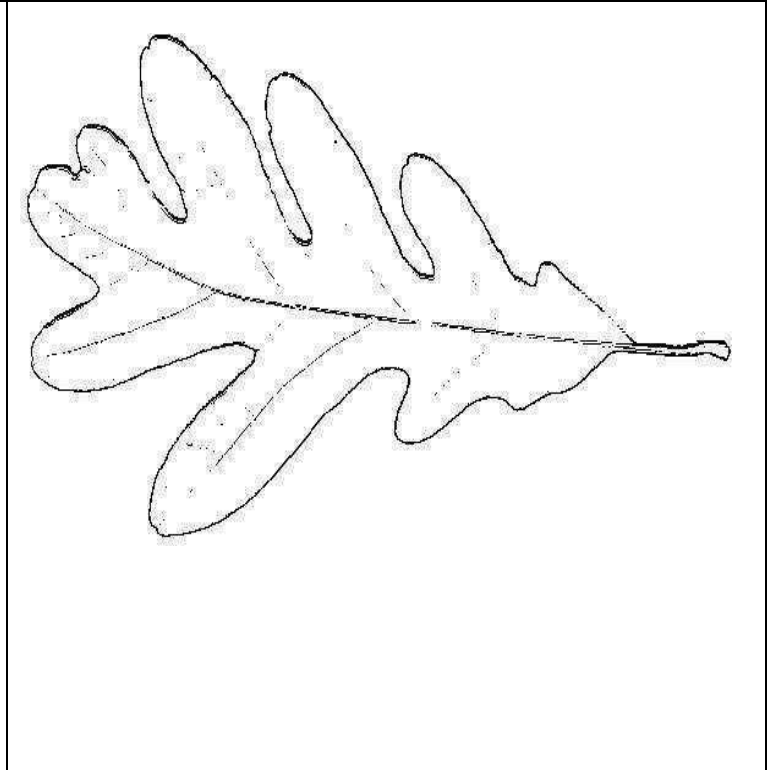
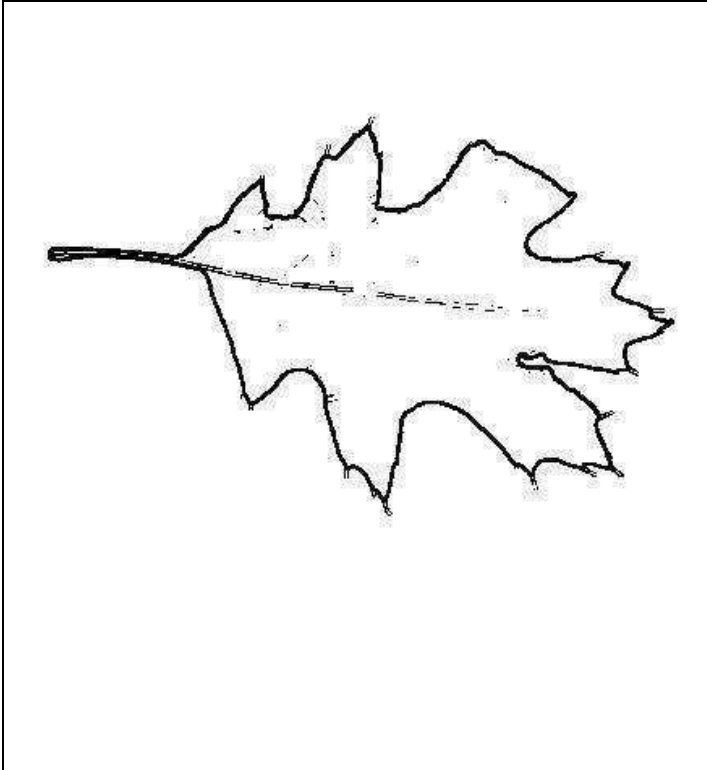
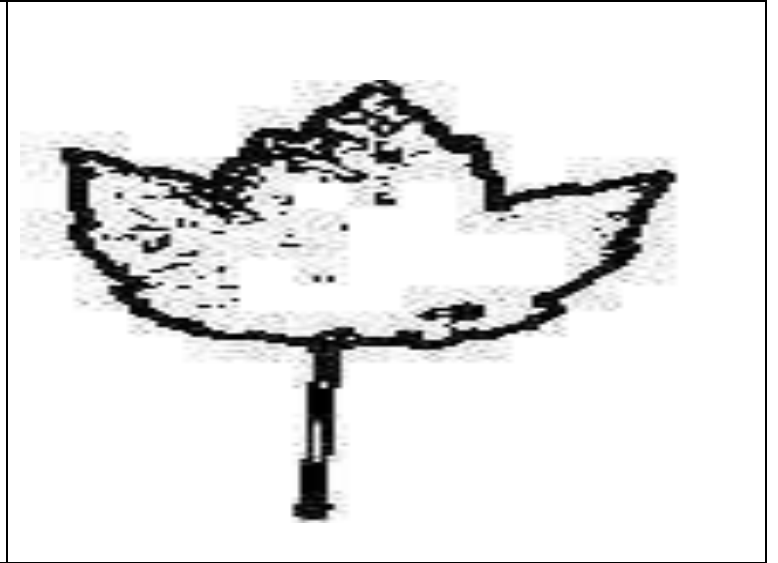
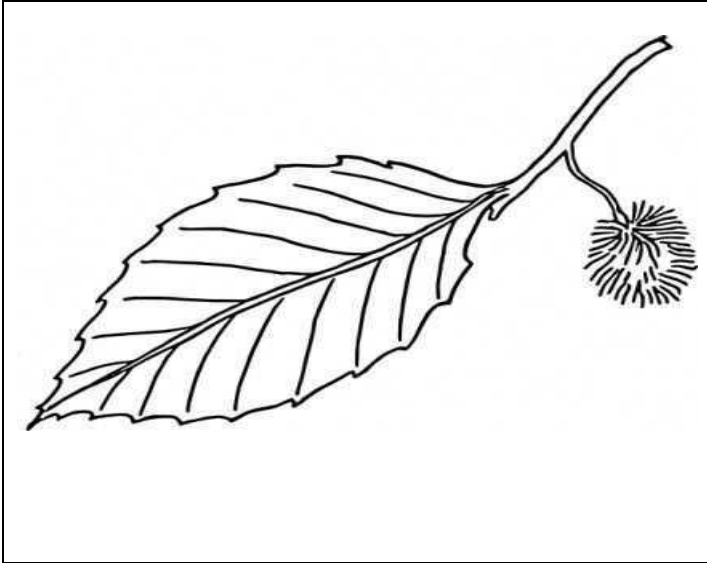
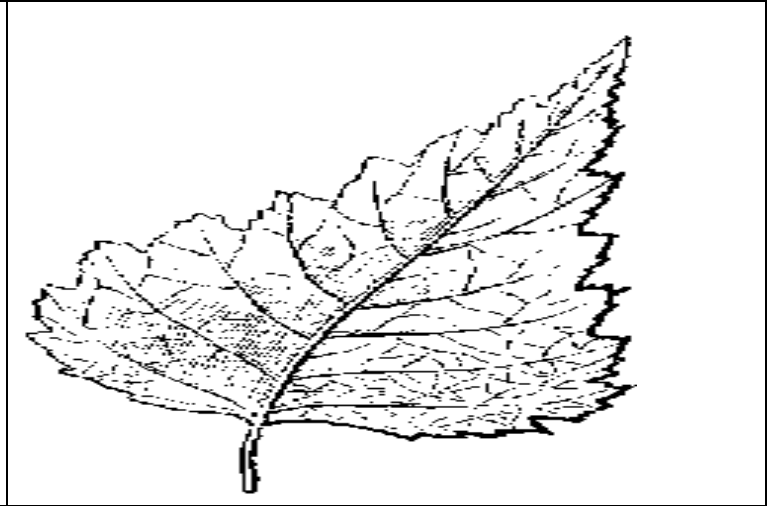
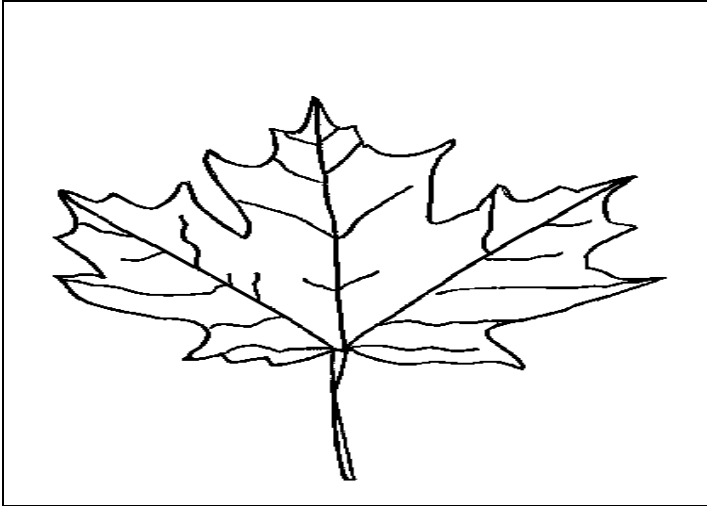
Leaf Apex: The _____ of the leaf.

The Petiole: Thin _____ that connects the leaf blade to the stem.

Please identify some of the structures on these leaves.



Please identify the tree based on the leaves/needles below. Sizes are not to scale!



Name this plant?



Poison Ivy: A North American _____ plant of the cashew family that secretes an irritant _____ from its leaves, which can cause _____.

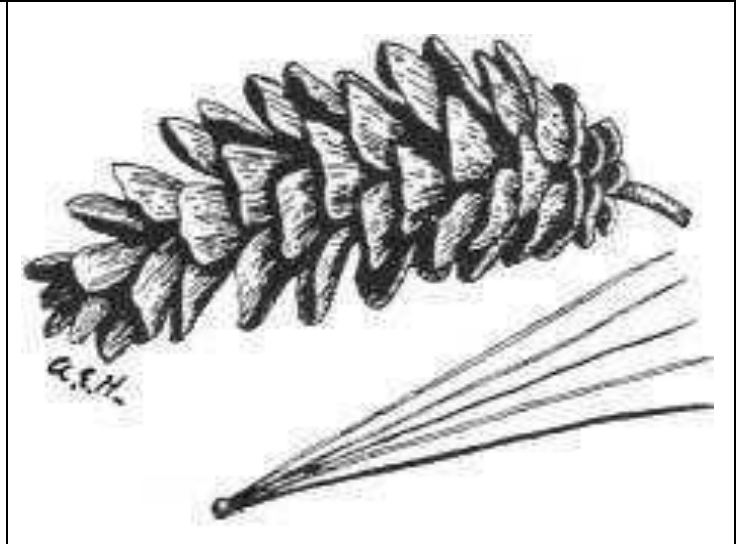
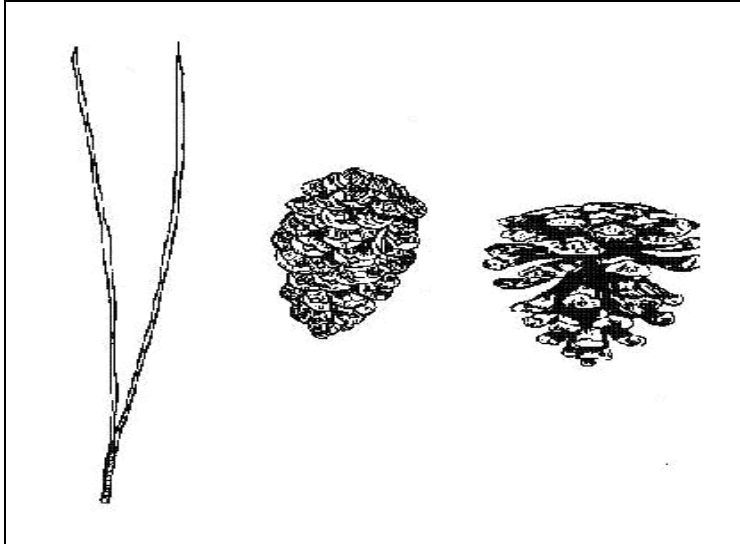
Please describe Poison Ivy in the Spring, Summer, Fall, and Winter. Sketches work as well.

Spring	Summer	Fall	Winter

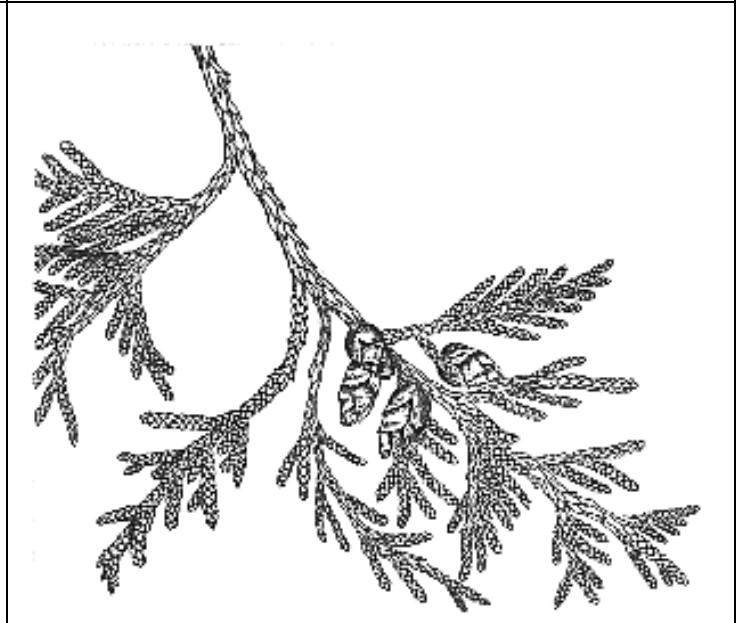
Quiz Wiz –Poison Ivy Identification. 1-10, Write Poison Ivy for the slides that are, and Not Ivy for the others.

1)	2)	3)
4)	5)	6)
7)	8)	9)
10)	*11)	

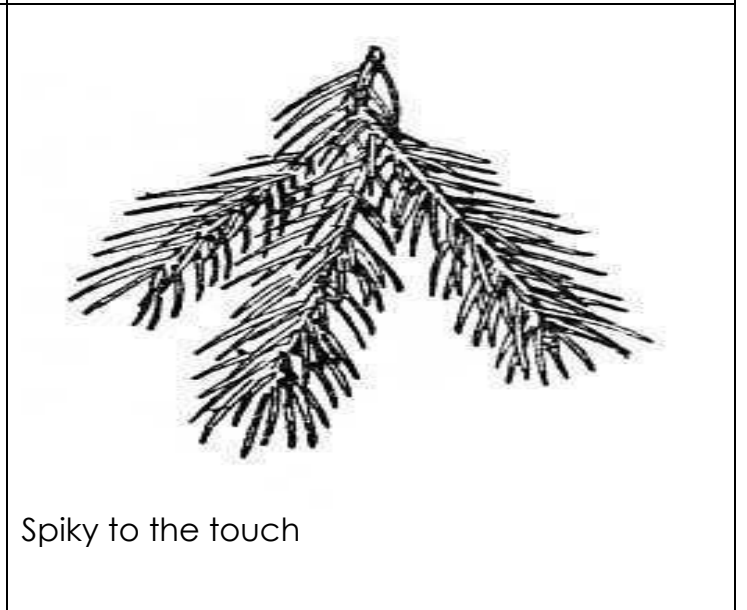
Part 5 Lesson 3 Conifers



Friendly to the touch



2 lines visible



Spiky to the touch

Deciduous: Plants and shrubs that _____ leaves in fall and grow them back in spring

Evergreens: Needles can survive _____, trees constantly grow and drop needles.

- Needles can survive cold (sap antifreeze).



scale-like



awl shaped



linear shaped



single needles

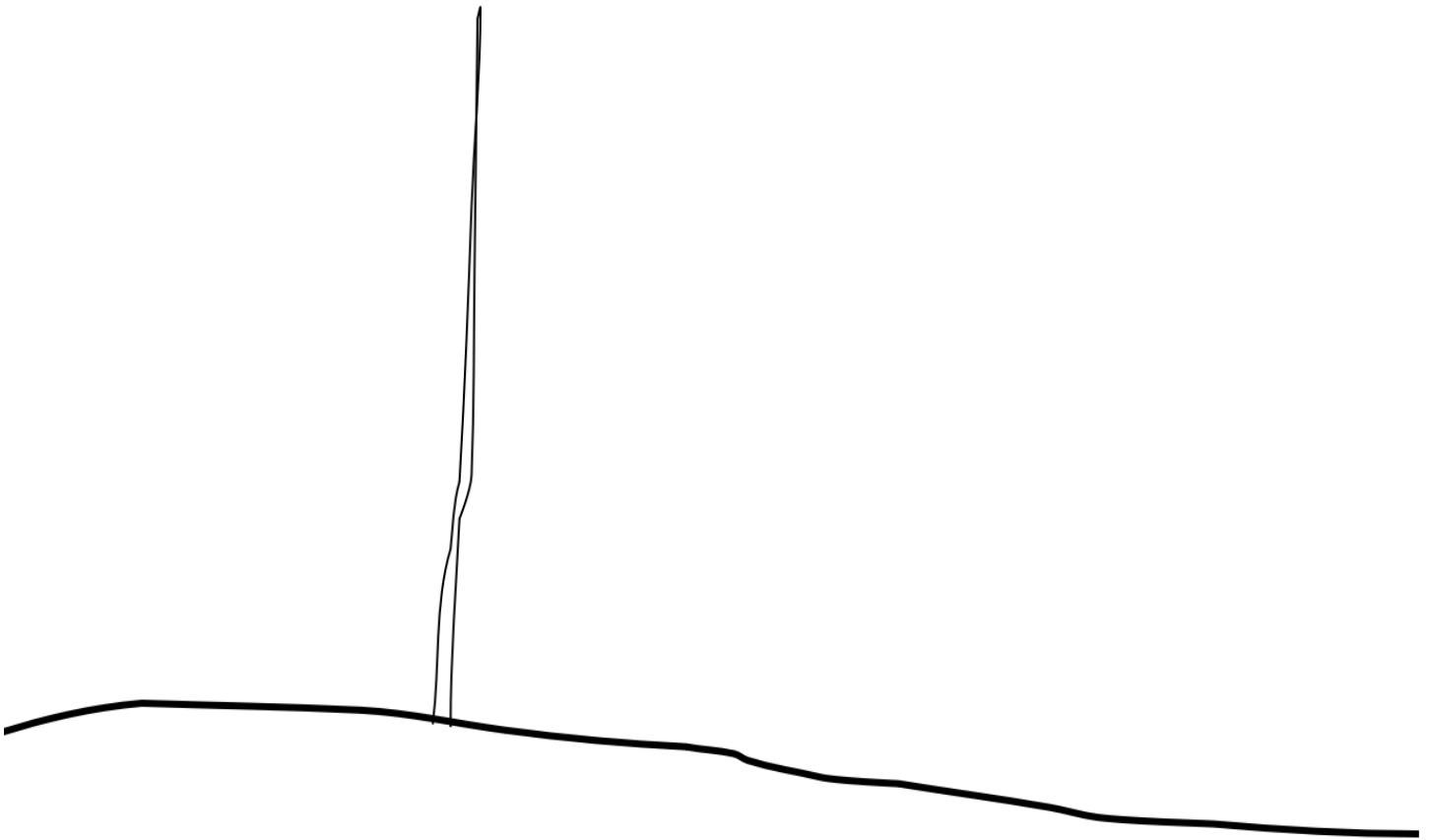


bundled needles



clustered needles

Conifers, as their name hints, bear cones.



Quiz! 1-11, Name that tree based on the leaf / needles.

1)	2)	3)
4)	5)	6)
7)	8)	9)
10)	*11)	

Part 5 Lesson 4 Plant Life Cycles

Seed Plant Life Cycles.

All plants undergo _____ reproduction (two partners). When the sperm and egg come together you get a _____ / baby plant.

Gymnosperm: Non-flowering, seeds usually arranged on a _____.

Which is the male cone (pollen producer), and which is female (egg)?

A)	B)
----	----



Angiosperm: Flowering, covered seed, produce seeds enclosed in a fruit / ovary.

Which plant is an angiosperm, and which is a gymnosperm?

A)	B)
----	----

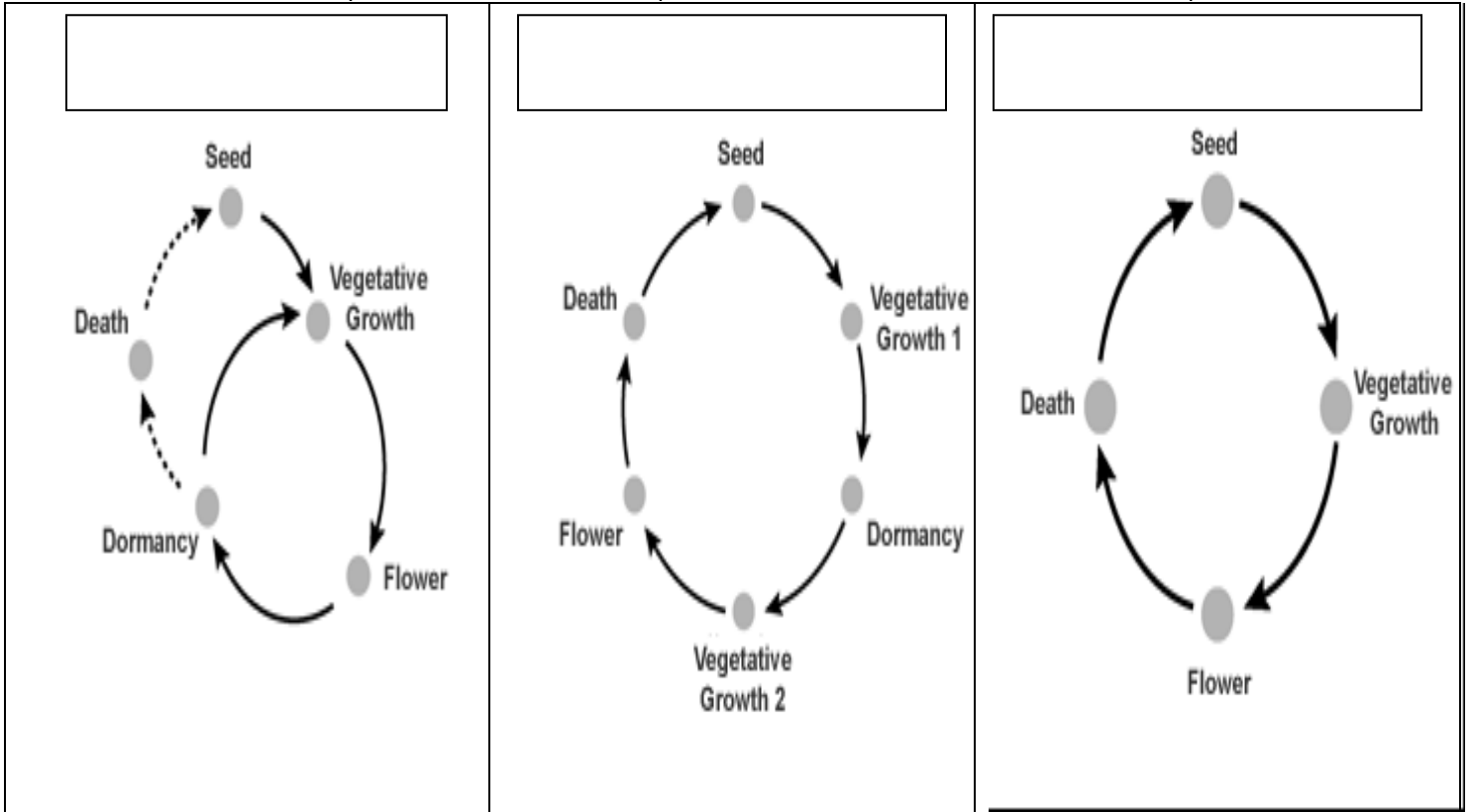


Annuals: Seed germinates, grows, and produces _____ seed, before dying.

Biennials: Plant _____ through first winter and produces seed before dying.

Perennials: Plants that live for _____ years producing seeds each year.

Please label the life cycles below. Which picture is an annual, biennial, and perennial?



Plant Life Cycles Dramatic Dance.

- Class will be divided into three groups (Annuals, Biennials, Perennials)
- Each group will have 15 minutes to plan an interpretive dance that explains their life cycle.
 - Group should not discuss life cycle with words but instead with dance and drama.
 - Group can have a narrator only if really needed. (Not recommended)

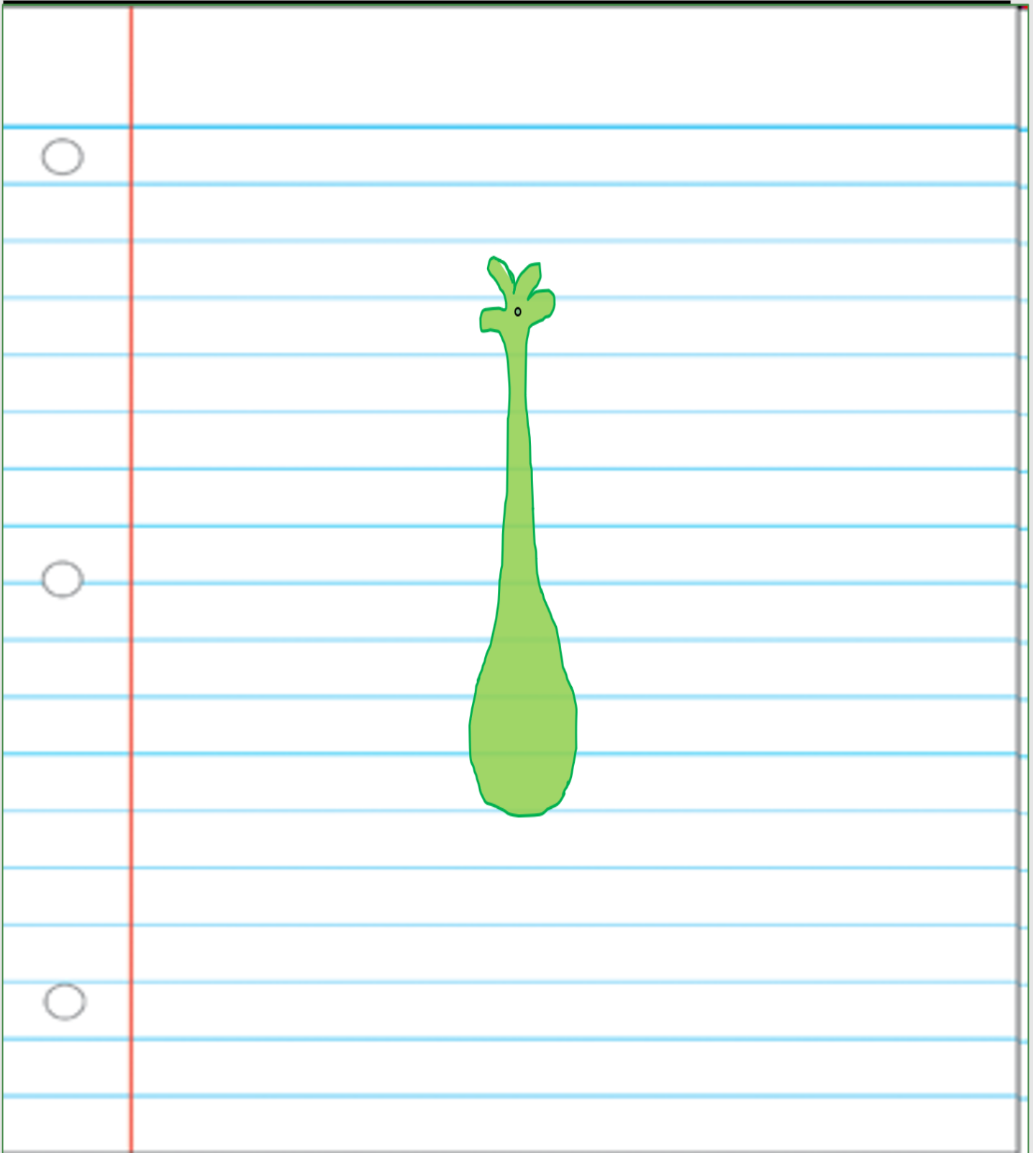
Notes for Dramatic Plant Life Cycle Skit

A writing area for notes, featuring a vertical red margin line on the left and horizontal blue lines for text. There are two grey oval shapes on the left side of the page, one near the top and one near the bottom, possibly serving as visual markers or guides.

Part 5 Lesson 5 Parts of a Flower

Flower: The reproductive organ of a plant that makes the _____.

Please draw a flower and label it as described in the slideshow.



Stamen – _____ part of flower (sperm).

Filament: _____ the anther.

Anther: Part of the stamen that holds the _____.

Pistil: Female part of flower (egg).

Stigma: Sticky bulb in the center of the flower. Receives the _____ grains.

Style: Long _____ that the stigma sits on top of.

Ovary: On bottom of the flower, has the _____ inside and turns into the fruit.

Contains the ovules.

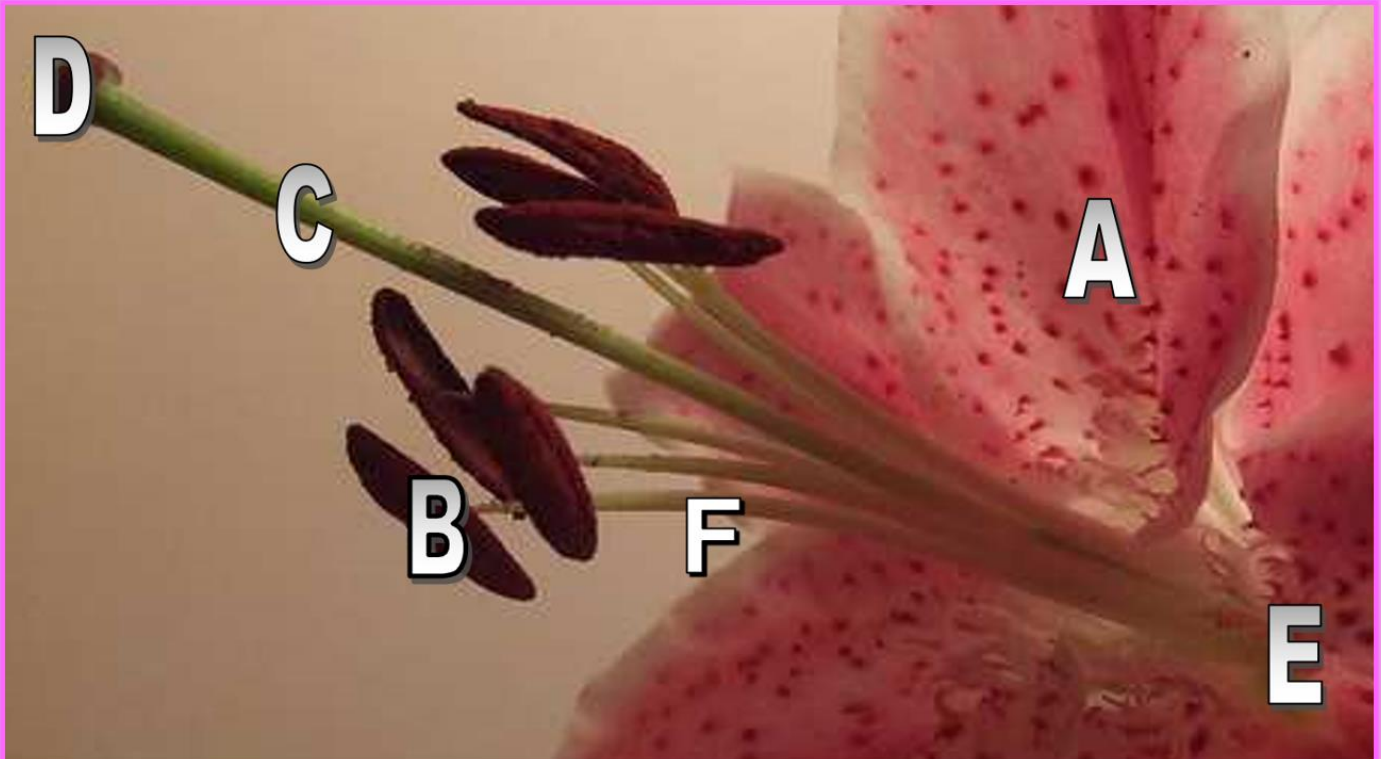
Ovule: The part of the _____ that becomes the seeds.

Petal: The colorful, often bright part of the flower. They attract _____.

Sepal: Green leaves that cover the outside of a flower bud to _____ the flower before it opens.

Please name A-F from the picture below.

A)	B)	C)
D)	E)	F)



Flowers attract pollinators through...

Fragrance (smell)

_____ (food)

Color (sight)

Part 5 Lesson 6 Flower Dissection

Activity! Flower Dissection.

- Remove the parts of the flower (Be delicate)
- Line them up in your journal and label them.
- Once labeled, place clear tape on top.

Quiz Wiz 1-10. Name that part of the flower. Same answers can be used more than once.

1)	2)	3)
4)	5)	6)
7)	8)	9)
10)	*11)	

Part 5 Lesson 7 Fruits and Vegetables

Fruit: The matured _____ in the pistil. Contains the seed.

Name A-K, Which is a fruit? And which is a vegetable? Try and provide what type of fruit if possible.



A)	B)	C)	D)	E)
F)	G)	H)	I)	J) K)

Part 5 Lesson 8 Parts of a Fruit

Parts of a fruit.

Exocarp / Epicarp: _____ covering of the fruit. "skin"

Mesocarp: _____ covering. "Flesh"

Endocarp: _____ covering, the stiff area around the seed. "Stone" "Pit"

Types of fruit

Fleshy Fruits

Berry: A fleshy fruit that contains one to _____ seeds. (No stony layer)

Tomato, Grape

Drupe is a type of fleshy fruit that has a _____ inner layer surrounding a single seed.

Plum, Peach

Pome: This fruit has a core as the true fleshy fruit, and it's surrounded by a fleshy good accessory layer.

Apple, Pear

Fleshy Aggregate Fruits: Develop from flowers with _____ pistils.

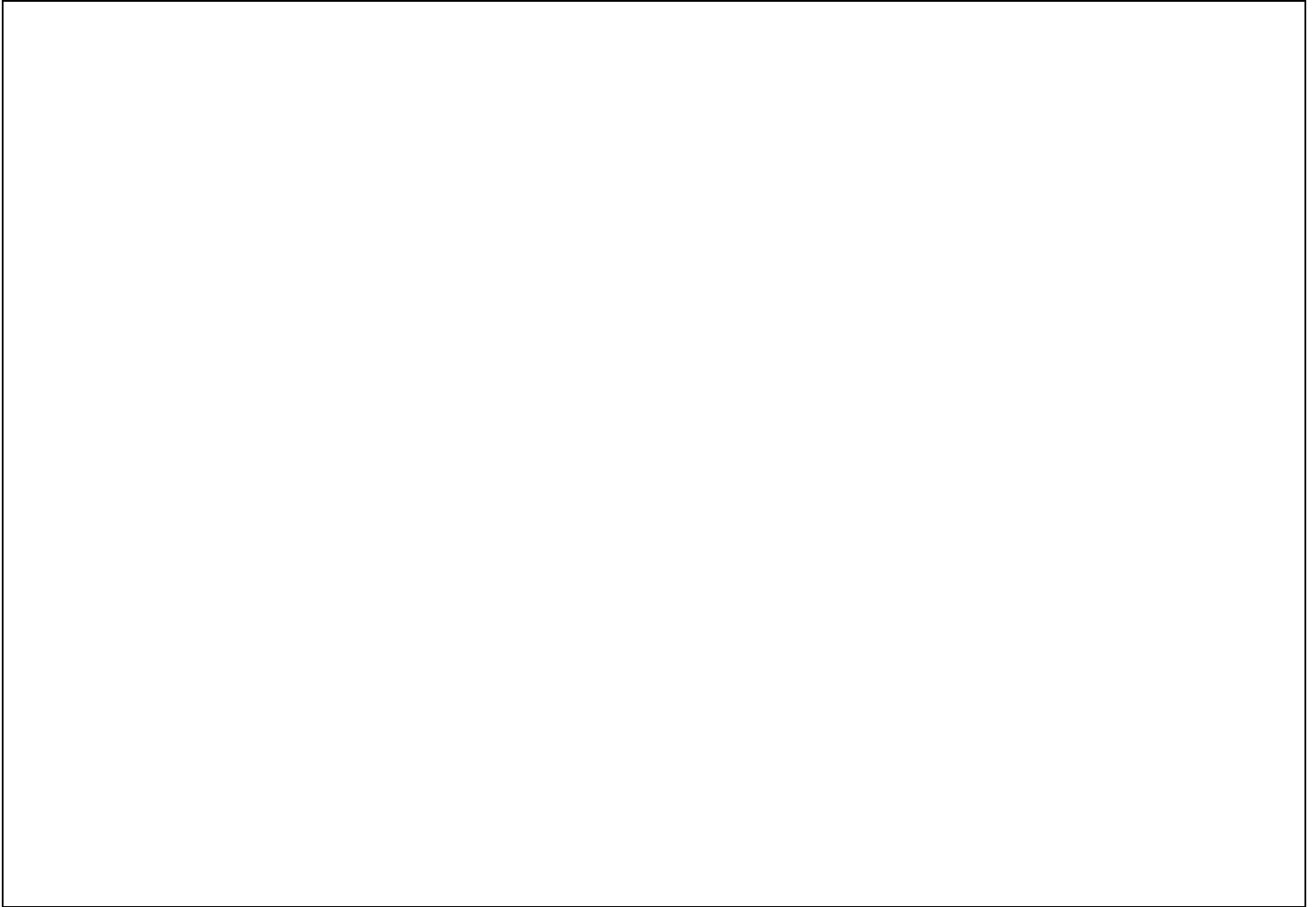
Strawberry, Blackberry

Fleshy Multiple Fruits: Form from a _____ of several flowers.

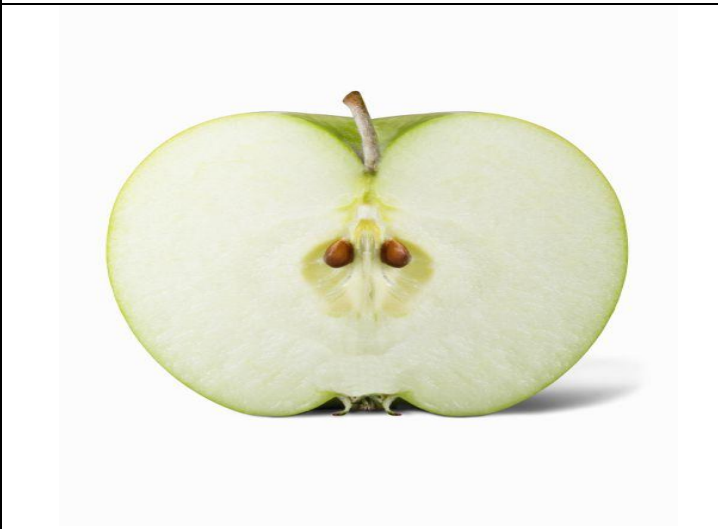
Pineapple, Fig

Activity! Fruit Dissection

- Please draw and label each fruit in your journal.
- What type of fruit it is? (From notes as we cover each fruit a sample may be delivered)
- Epicarp / Exocarp – (exo=outside).
- Mesocarop – (meso = middle).
- Endocarp – (endo = inner).
- Where fruit attaches to plant (old receptacle)



Name the types of fruit below. Ex, Apple is incorrect. Providing some extra info is advised.





Dehiscent Dry Fruits: A dry fruit that _____ at maturity releasing the seeds.

Legume (Dry Fruit): An elongated _____ splitting along two seams. (Beans)

Indehiscent Dry Fruits: Pericarp does not split open. These fruits usually contain only one seed (_____)

Describe some of the ways that people use plants.



Across

2. The reproductive organ of a plant that makes the seed.
4. D_____ Dry Fruits: A dry fruit that splits at maturity releasing the seeds.
7. Green leaves that cover the outside of a flower bud to protect the flower before it opens.
12. Fleshy _____ Fruits: Form from a cluster of several flowers. Ex-Pineapple, Fig
13. Sticky bulb in the center of the flower. Receives the pollen grains.
15. The colorful, often bright part of the flower. They attract pollinators and are pretty
17. _____ Ivy: a North American climbing plant of the cashew family that secretes an irritant oil from its leaves, which can cause dermatitis.
19. Inner covering of the fruit, the stiff area around the seed. "Stone" "Pit"
20. Leaf M_____: The edge of the leaf.
22. On bottom of the flower, has the seeds inside and turns into the fruit. Contains the ovules.
24. Plants and shrubs that lose leaves in fall and grow them back in spring.
27. This fruit has a core as the true fleshy fruit, and it's surrounded by a fleshy good accessory layer. Ex-Apple, Pear
29. A fleshy fruit that contains one to many seeds. (No stony layer) Ex-Tomato, Grape
30. Plants that live for many years producing seeds each year.

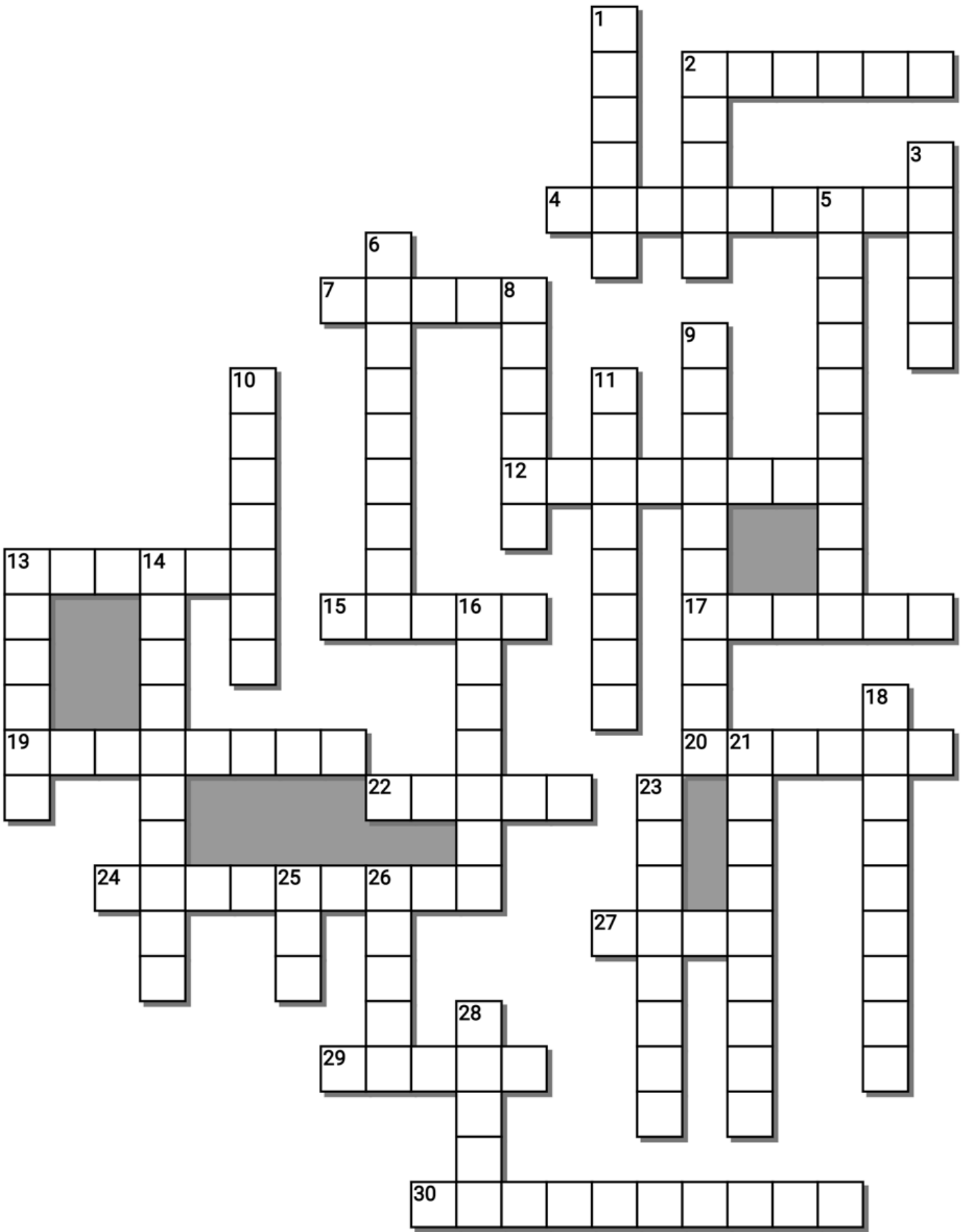
Down

1. Part of the stamen that holds the pollen.
2. The matured ovary in the pistil. Contains the seed.
3. Long stalk that the stigma sits on top of.
5. Needles can survive winter, trees constantly grow and drop needles.
6. Edible part of a plant that is not a sweet fruit or seed. Stalk, leaves, root, etc.
8. An elongated pod splitting along two seams. (Beans)
9. Flowering, covered seed, produce seeds enclosed in a fruit /ovary.
10. This is the outer covering of the fruit. "skin"
11. Supports the anther.
13. Male part of flower
14. Non-flowering, seeds usually arranged on a cone.
16. Seed germinates, grows, and produces new seed, before dying.
18. Plant lives through first winter and produces seed before dying.
21. Fleshy _____ Fruits: Develop from flowers with many pistils. Ex-Strawberry, Blackberry
23. This is the Middle covering. "Flesh" of the fruit
25. Indehiscent ____ Fruits: Pericarp does not split open. These fruits usually contain only one seed (Nuts)
26. The part of the ovary that becomes the seeds.
28. This is a type of fleshy fruit that has a stony inner layer surrounding a single seed. Ex-Plum, Peach

-----teacher can remove this word bank to make puzzle more challenging-----

Possible Answers

AGGREGATE, ANGIOSPERM, ANNUALS, ANTHER, BERRY, BIENNIALS, DECIDUOUS, DEHISCENT , DRUPE, DRY , ENDOCARP, EPICARP, EVERGREENS, FILAMENT, FLOWER, FRUIT, GYMNASPERM, LEGUME, MARGIN, MESOCARP, MULTIPLE , OVARY, OVULE, PERENNIALS, PETAL, POISON, POME, SEPAL, STAMEN, STIGMA, STYLE, VEGETABLE



Part 5 Review Game Lesson 9

1-10 = 10 pts * = Bonus + 1 pt,
 (Secretly write owl in correct space +1 pt)
 Final Question = 5 pt wager

Name: _____
 Due: Today
 Score ____ / 100

IDENTITY CRISIS	THE WONDER YEARS	BOYS AND GIRLS	TOOTY FRUITY	BIG BERRY Bonus round 1 pt each
1)	6)	11)	16)	*21)
2)	7)	12)	17)	*22)
3)	8)	13)	18)	*23)
4)	9)	14)	19)	*24)
5)	10)	15)	20)	*25)

Final Question Wager ____ /5 Answer: _____

Part 5 Flowers and More

Name: _____

Part 5 Lesson 1 Leaf Identification

Find three leaves or more and create a rubbing in the space below using the side of a crayon.



Define a leaf in or around the rubbing? Once we learn about leaf identification can you describe some identifiable leaf structures / name the tree this leaf came from?

Blade: The entire **leaf** unit. Sometimes this is made up of several smaller leaflets.

Veins: Contains **vascular** tissues.

Leaf Margin: The **edge** of the leaf.

Leaf Base: Name for the blade close to the **stem**

Leaf Apex: The **tip** of the leaf.

The Petiole: Thin **stalks** that connects the leaf blade to the stem.

Please identify some of the structures on these leaves.

SHAPE

MARGIN

VENATION

Pinnate

Palmate

Spiny

This panel shows a classification grid for leaf morphology. The 'SHAPE' column includes Acicular, Falcate, Orbicular, Rhomboid, Acuminate, Flabellate, Palmate, Alternate, Hastate, Lobate, Aristate, Lanceolate, Pedate, Bipinnate, Linear, Peltate, Cordate, Lobed, Perfoliate, Cuneate, Obtuse, Pinnatisect, Unifoliate, Deltoid, Obovate, Even Pinnate, and Elliptic. The 'MARGIN' column includes Ciliate, Crenate, Dentate, Denticulate, Doubly Serrate, Entire, Lobate, Serrate, and Undulate. The 'VENATION' column includes Cross-Venulate, Dichotomous, Pinnate, Parallel, and Reticulate. A large yellow maple leaf is centered, with a yellow box around its shape, a red box around its margin, and a green box around its venation. Handwritten labels 'Pinnate', 'Palmate', and 'Spiny' are placed near the leaf.

SHAPE

MARGIN

VENATION

Double Serrate

Elliptical

Pinnate

This panel shows a classification grid for leaf morphology. The 'SHAPE' column includes Acicular, Falcate, Orbicular, Rhomboid, Acuminate, Flabellate, Ovale, Rosette, Alternate, Hastate, Palmate, and Spatulate. The 'MARGIN' column includes Ciliate, Crenate, Dentate, Denticulate, Doubly Serrate, Entire, Lobate, Serrate, and Undulate. The 'VENATION' column includes Cross-Venulate, Dichotomous, Pinnate, Parallel, and Reticulate. A large green leaf is centered, with a yellow box around its shape, a red box around its margin, and a green box around its venation. Handwritten labels 'Double Serrate', 'Elliptical', and 'Pinnate' are placed near the leaf.

SHAPE

MARGIN

VENATION

Palmate

Spiny

Pinnate

This panel shows a classification grid for leaf morphology. The 'SHAPE' column includes Acicular, Falcate, Orbicular, Rhomboid, Acuminate, Flabellate, Rosette, Alternate, Hastate, Spatulate, Lobate, Lanceolate, Pedate, and Spear-shaped. The 'MARGIN' column includes Ciliate, Crenate, Dentate, Denticulate, Doubly Serrate, Entire, Lobate, Serrate, and Undulate. The 'VENATION' column includes Arcuate, Dichotomous, Pinnate, Parallel, and Reticulate. A large green leaf is centered, with a yellow box around its shape, a red box around its margin, and a green box around its venation. Handwritten labels 'Palmate', 'Spiny', and 'Pinnate' are placed near the leaf.

SHAPE

MARGIN

VENATION

Double-Serrate

Palmate

Reniform

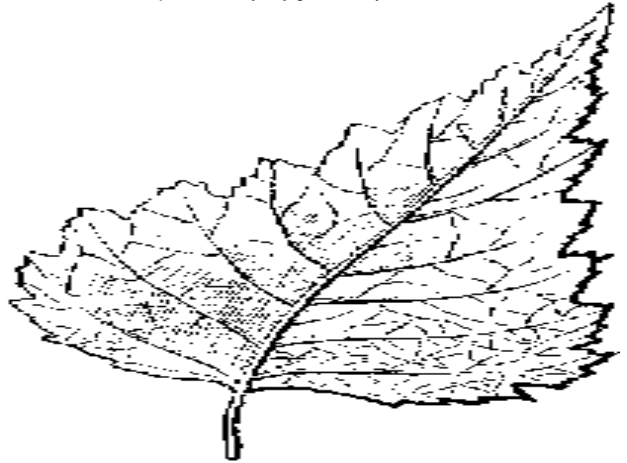
This panel shows a classification grid for leaf morphology. The 'SHAPE' column includes Acicular, Falcate, Orbicular, Rhomboid, Acuminate, Flabellate, Ovale, Rosette, Alternate, Hastate, Palmate, and Spatulate. The 'MARGIN' column includes Ciliate, Crenate, Dentate, Denticulate, Doubly Serrate, Entire, Lobate, Serrate, and Undulate. The 'VENATION' column includes Arcuate, Dichotomous, Pinnate, Parallel, and Reticulate. A large green leaf is centered, with a yellow box around its shape, a red box around its margin, and a green box around its venation. Handwritten labels 'Double-Serrate', 'Palmate', and 'Reniform' are placed near the leaf.

Please identify the tree based on the leaves/needles below. Sizes are not to scale!

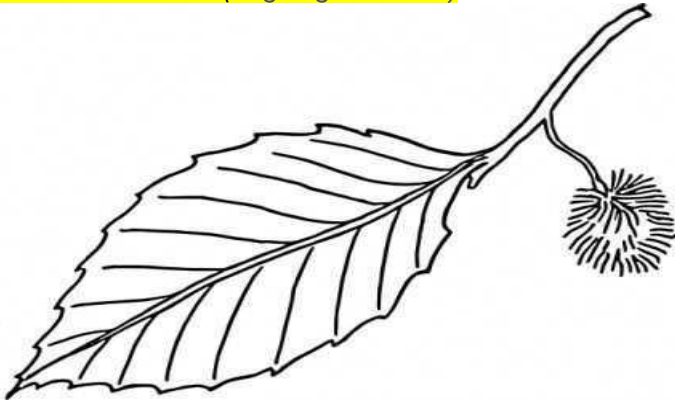
Sugar Maple



White Birch (Betula papyrifera)



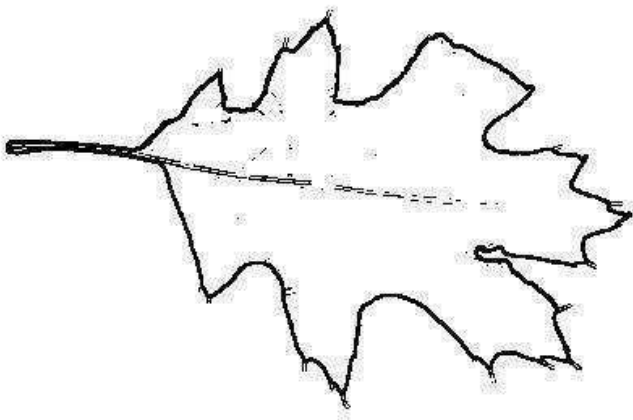
American Beech (Fagus grandifolia)



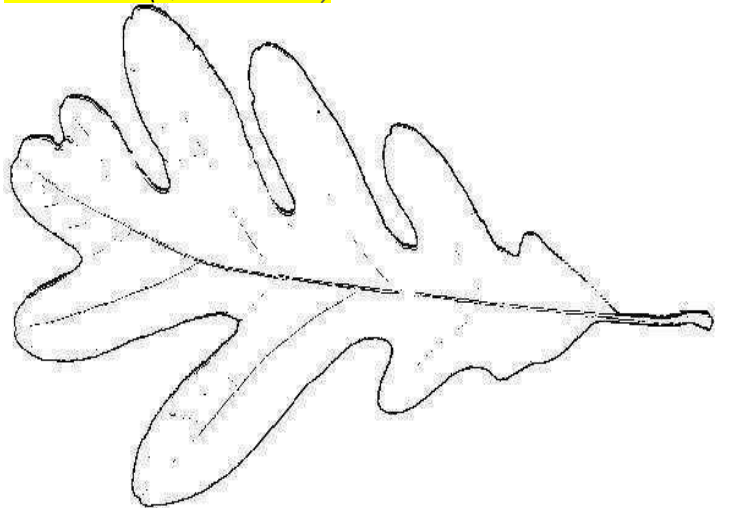
Red Maple (Acer rubrum)



Red Oak (Quercus rubra)



White Oak (Quercus alba)







Name this plant? **Poison Ivy (Toxicodendron radican)**



1. Compound leaves with three leaflets (leading to the saying "leaves of three, let it be")
2. The stalk of the middle leaflet is much longer than the stalks of the two side leaflets.
3. The edges can be smooth or coarsely toothed.
4. Surface can be glossy or dull.

Poison Ivy: A North American **climbing** plant of the cashew family that secretes an irritant **oil** from its leaves, which can cause **dermatitis**.

Please describe Poison Ivy in the Spring, Summer, Fall, and Winter. Sketches work as well.

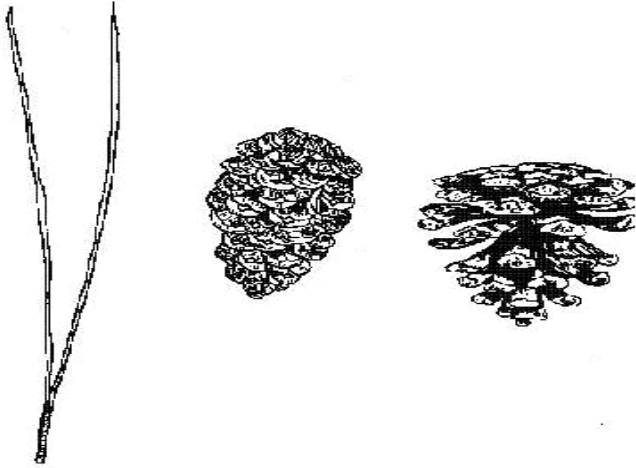
Spring	Summer	Fall	Winter
 <p>In the spring, the leaves are a darker red sometime with some green. They will turn green in the summer</p>	 <p>See above description</p>	 <p>Fall turns berries darker, dried, and wrinkled, and the leaves turn a brilliant scarlet or russet brown before falling to the ground.</p>	 <p>Winter makes all of the leaves drop, leaving only bare sticks, whip-like stems, or climbing vines remaining. Don't touch vines! You can still get dermatitis in the winter if you come in contact with oil in vines.</p>

Quiz Wiz –Poison Ivy Identification. 1-10, Write Poison Ivy for the slides that are, and Not Ivy for the others.

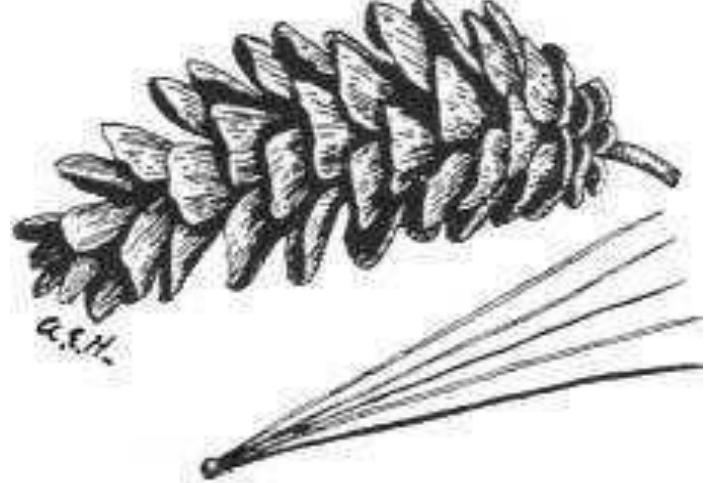
1) It's Poison Ivy	2) Not Poison Ivy	3) Not Poison Ivy
4) It's Poison Ivy	5) Not Poison Ivy	6) Not Poison Ivy
7) It's Poison Ivy	8) Not Poison Ivy	9) It's Poison Ivy
10) It's Poison Ivy	*11) Jumanji	

Part 5 Lesson 3 Conifers

Red Pine (*Pinus resinosa*)



White Pine (*Pinus strobus*)

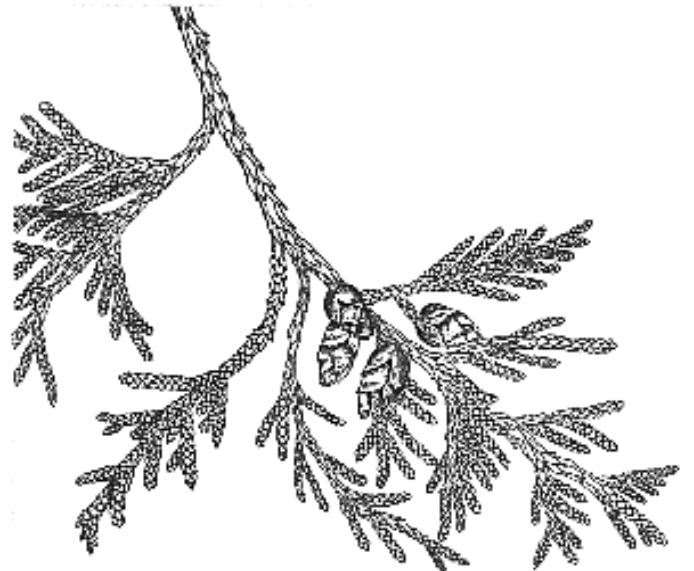


Douglas Fir (*Pseudotsuga menziesii*)



Friendly to the touch

North Atlantic White Cedar (*Chamaecyparis thyoides*)

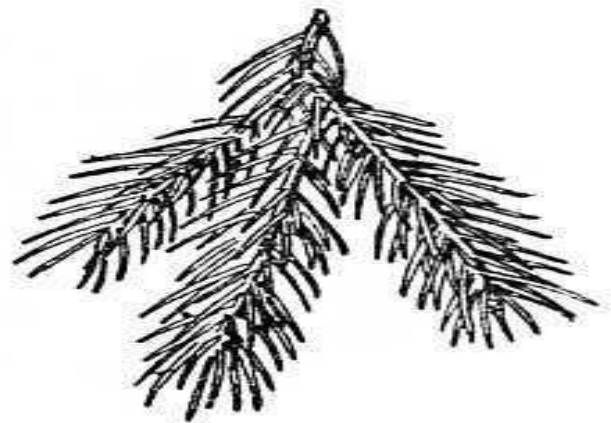


Hemlock (*Tsuga* is a genus of conifers)



2 lines visible

Spruce (genus *Picea*,)

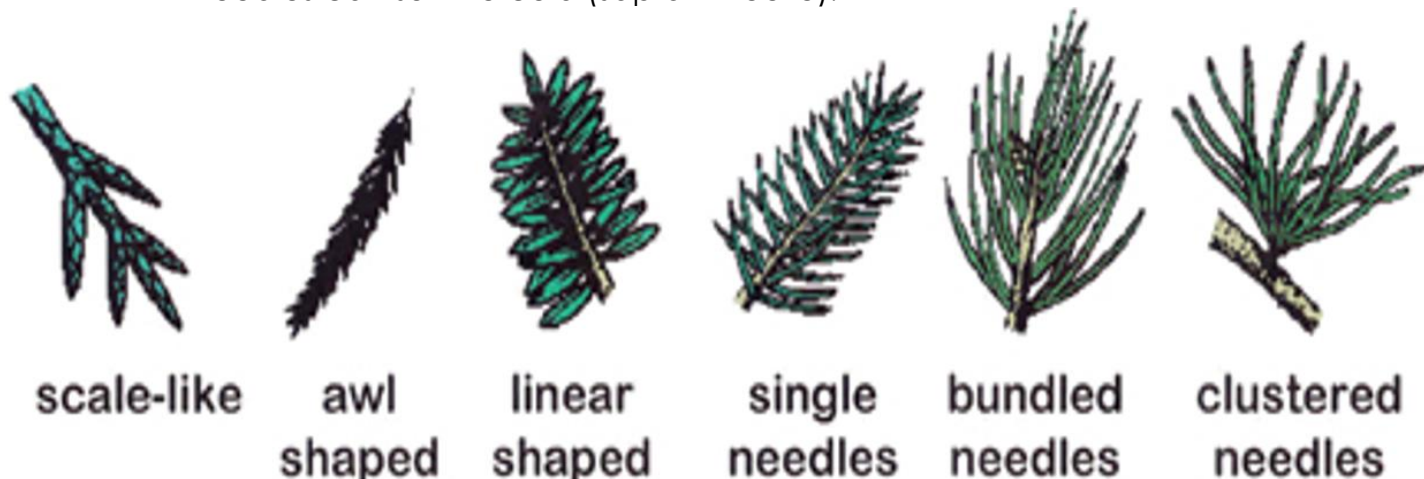


Spiky to the touch

Deciduous: Plants and shrubs that **drop** leaves in fall and grow them back in spring

Evergreens: Needles can survive **winter**, trees constantly grow and drop needles.

- Needles can survive cold (sap antifreeze).



Conifers, as their name hints, bear cones.



Quiz! 1-11, Name that tree based on the leaf / needles.

1) White Oak (<i>Quercus alba</i>)	2) Hemlock (<i>Tsuga</i> is a genus of conifers)	3) Red Maple (<i>Acer rubrum</i>)
4) Red Pine (<i>Pinus resinosa</i>)	5) Red Oak (<i>Quercus rubra</i>)	6) American Beech (<i>Fagus grandifolia</i>)
7) North Atlantic White Cedar (<i>Chamaecyparis thyoides</i>)	8) White Pine (<i>Pinus strobus</i>)	9) White Birch (<i>Betula papyrifera</i>)
10) Spruce (genus <i>Picea</i> .)	*11) Christmas Vacation	

Part 5 Lesson 4 Plant Life Cycles

Seed Plant Life Cycles.

All plants undergo **sexual** reproduction (two partners). When the sperm and egg come together you get a **zygote** / baby plant.

Gymnosperm: Non-flowering, seeds usually arranged on a **cone**.

Which is the male cone (pollen producer), and which is female (egg)?

A) Female Cone -Seeds

B) Male Cone (Pollen / Sperm)



Angiosperm: Flowering, covered seed, produce seeds enclosed in a fruit /ovary.

Which plant is an angiosperm, and which is a gymnosperm?

A) Angiosperm (Flowering)

B) Gymnosperm (Cone Bearing)

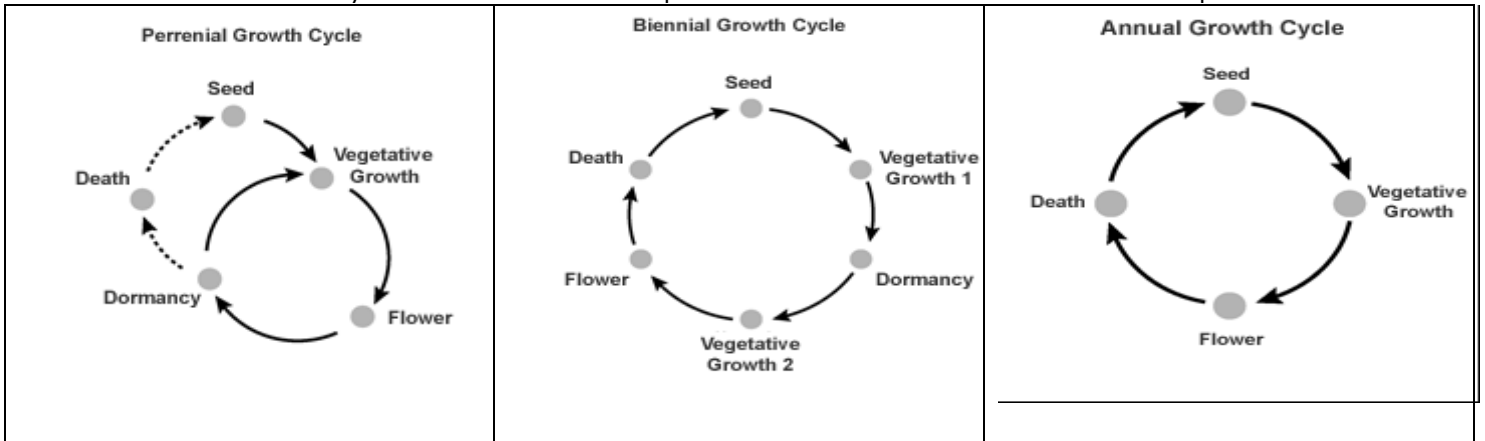


Annuals: Seed germinates, grows, and produces **new** seed, before dying.

Biennials: Plant **lives** through first winter and produces seed before dying.

Perennials: Plants that live for **many** years producing seeds each year.

Please label the life cycles below. Which picture is an annual, biennial, and perennial?



Plant Life Cycles Dramatic Dance.

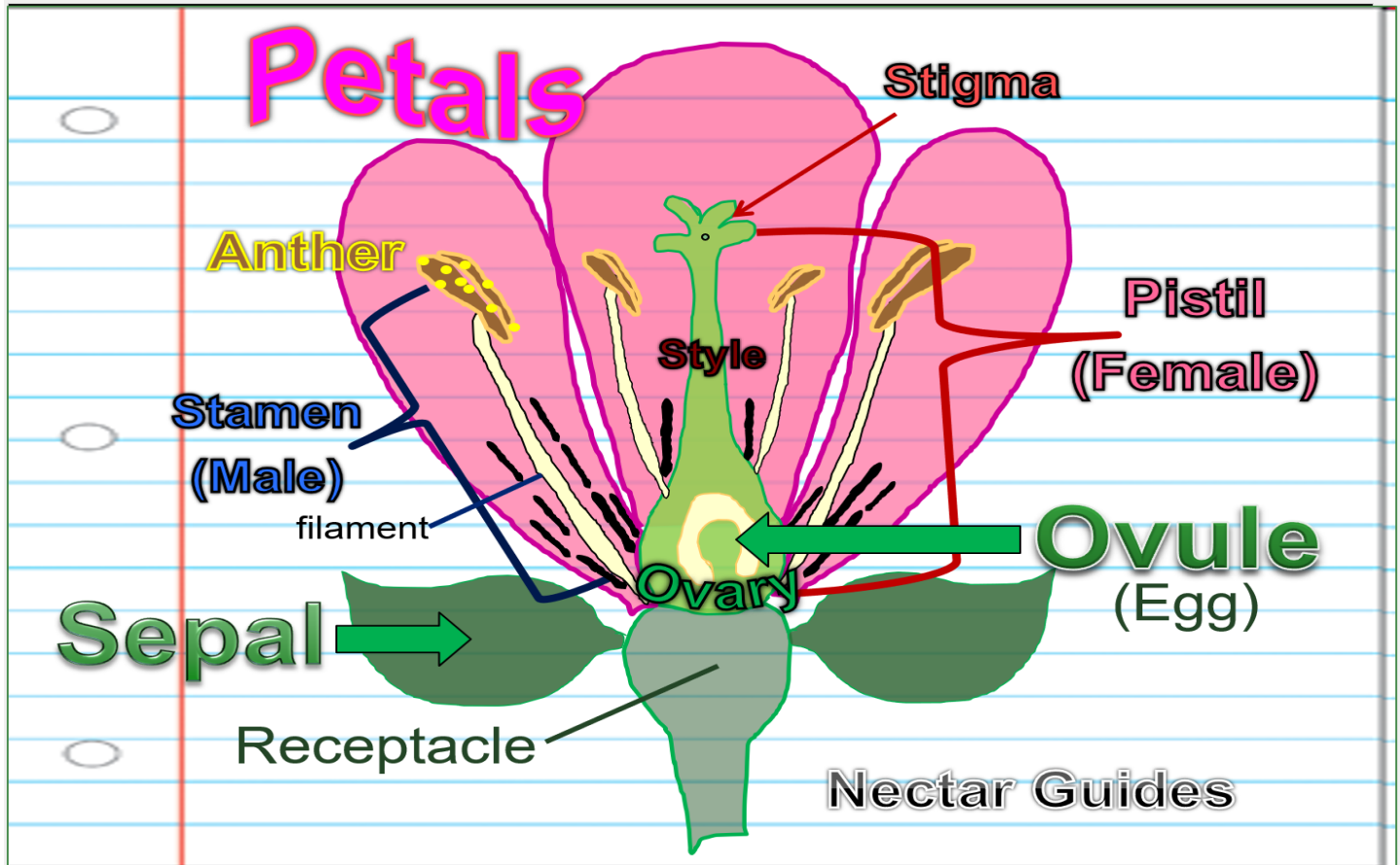
- Class will be divided into three groups (Annuals, Biennials, Perennials)
- Each group will have 15 minutes to plan an interpretive dance that explains their life cycle.
 - Group should not discuss life cycle with words but instead with dance and drama.
 - Group can have a narrator only if really needed. (Not recommended)

Notes for Dramatic Plant Life Cycle Skit

Part 5 Lesson 5 Parts of a Flower

Flower: The reproductive organ of a plant that makes the **seed**.

Please draw a flower and label it as described in the slideshow.



Stamen – **Male** part of flower (sperm).

Filament: **Supports** the anther.

Anther: Part of the stamen that holds the **pollen**.

Pistil: Female part of flower (egg).

Stigma: Sticky bulb in the center of the flower. Receives the **pollen** grains.

Style: Long **stalk** that the stigma sits on top of.

Ovary: On bottom of the flower, has the **seeds** inside and turns into the fruit.
Contains the ovules.

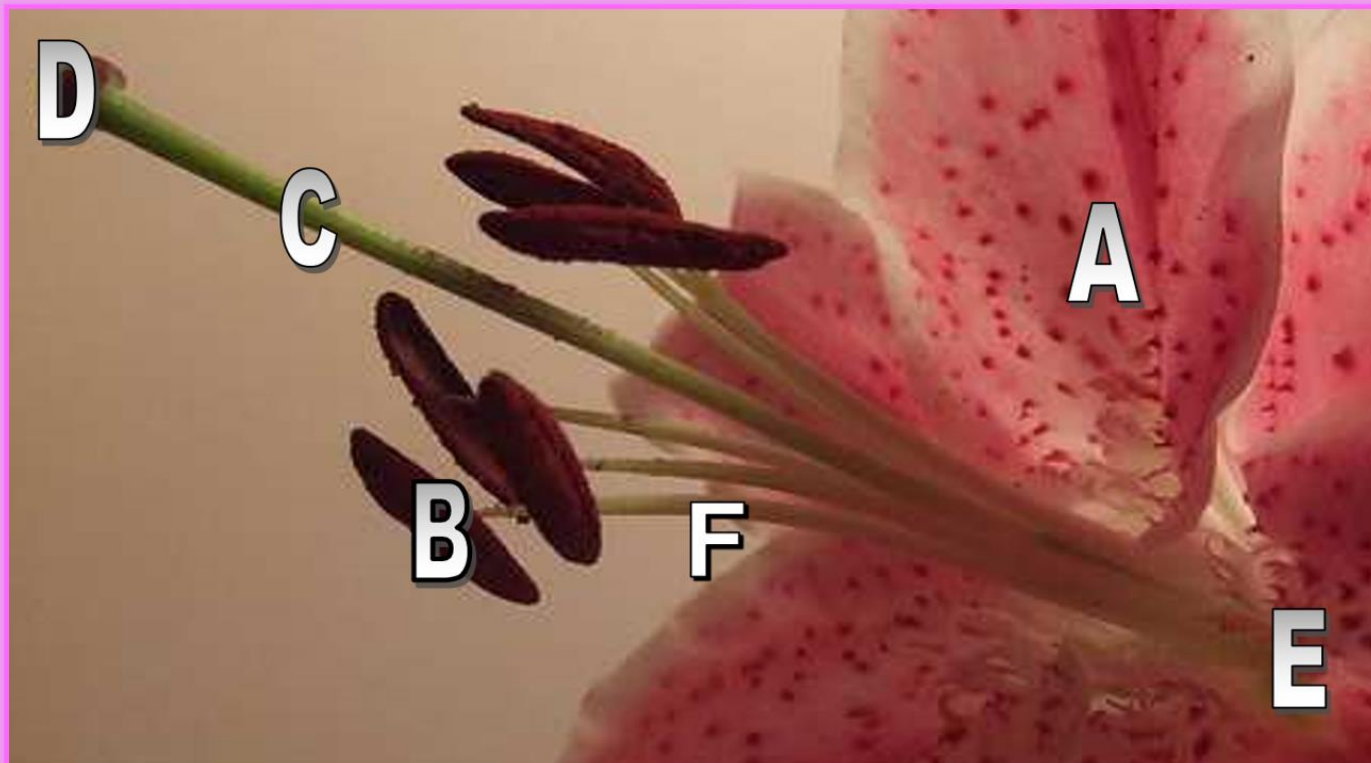
Ovule: The part of the **ovary** that becomes the seeds.

Petal: The colorful, often bright part of the flower. They attract **pollinators**.

Sepal: Green leaves that cover the outside of a flower bud to **protect** the flower before it opens.

Please name A-F from the picture below.

A) Petal	B) Anther	C) Style
D) Stigma	E) Ovary / Ovule	F) Filament



Flowers attract pollinators through...

Fragrance (smell)

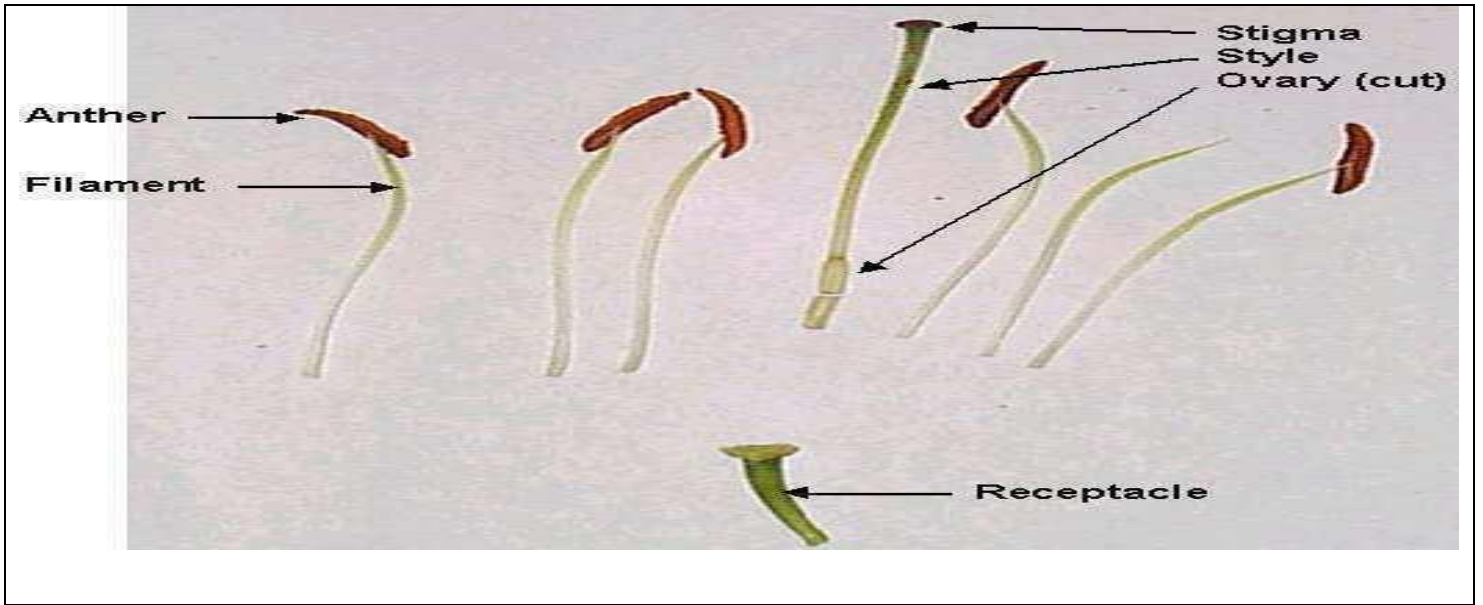
Nectar (food)

Color (sight)

Part 5 Lesson 6 Flower Dissection

Activity! Flower Dissection.

- Remove the parts of the flower (Be delicate)
- Line them up in your journal and label them.
- Once labeled, place clear tape on top.



Quiz Wiz 1-10. Name that part of the flower. Same answers can be used more than once.

1) Filament	2) Ovules	3) Petals
4) Stigma	5) Sepals	6) Anther
7) Ovary	8) Style	9) Anther
10) Sepals	*11) Polar Express	

Part 5 Lesson 7 Fruits and Vegetables

Fruit: The matured ovary in the pistil. Contains the seed.

Name A-K, Which is a fruit? And which is a vegetable? Try and provide what type of fruit if possible.



A) Fruit	B) Fruit	C) Vegetable	D) Fruit	E) Vegetable
F) Fruit	G) vegetable	H) Fruit	I) Fruit	J) Fruit
				K) Fruit

Part 5 Lesson 8 Parts of a Fruit

Parts of a fruit.

Exocarp / Epicarp: **Outer** covering of the fruit. "skin"

Mesocarp: **Middle** covering. "Flesh"

Endocarp: **Inner** covering, the stiff area around the seed. "Stone" "Pit"

Types of fruit

Fleshy Fruits

Berry: A fleshy fruit that contains one to **many** seeds. (No stony layer)

Tomato, Grape

Drupe is a type of fleshy fruit that has a **stony** inner layer surrounding a single seed.

Plum, Peach

Pome: This fruit has a core as the true fleshy fruit, and it's surrounded by a fleshy good accessory layer.

Apple, Pear

Fleshy Aggregate Fruits: Develop from flowers with **many** pistils.

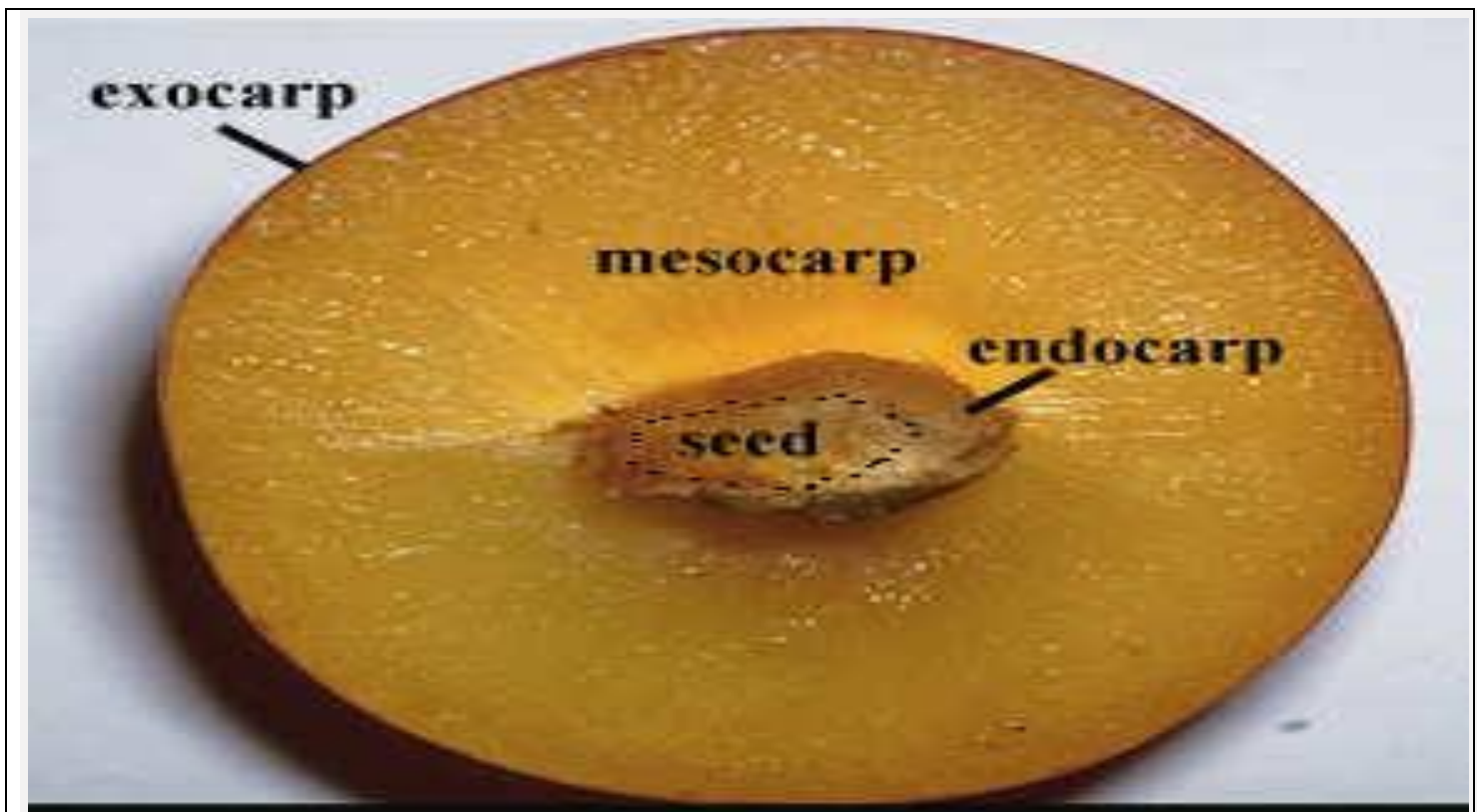
Strawberry, Blackberry

Fleshy Multiple Fruits: Form from a **cluster** of several flowers.

Pineapple, Fig

Activity! Fruit Dissection

- Please draw and label each fruit in your journal.
- What type of fruit it is? (From notes as we cover each fruit a sample may be delivered)
- Epicarp / Exocarp – (exo=outside).
- Mesocarp – (meso = middle).
- Endocarp – (endo = inner).
- Where fruit attaches to plant (old receptacle)



Name the types of fruit below. Ex, Apple is incorrect. Providing some extra info is advised.



Berry: A fleshy fruit that contains one to many seeds. (No stony layer) Tomato, Grape



Drupe is a type of fleshy fruit that has a stony inner layer surrounding a single seed. Plum, Peach



Pome: This fruit has a core as the true fleshy fruit, and it's surrounded by a fleshy good accessory layer.



Fleshy Aggregate Fruits: Develop from flowers with many pistils. Strawberry, Blackberry



Fleshy Multiple Fruits: Form from a cluster of several flowers. Pineapple, Fig



Fleshy Aggregate Fruits: Develop from flowers with many pistils. Strawberry, Blackberry



Dehiscent Dry Fruits: A dry fruit that splits at maturity releasing the seeds.
 Legume (Dry Fruit): An elongated pod splitting along two seams. (Beans)

Indehiscent Dry Fruits: Pericarp does not split open. These fruits usually contain only one seed (Nuts)

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Describe some of the ways that people use plants.
 Plants provide us with food, fiber, shelter, medicine, and fuel. The basic food for all organisms is produced by green plants. In the process of food production, oxygen is released. This oxygen, which we obtain from the air we breathe, is essential to life.

The collage illustrates various uses of plants. On the left, a person with arms raised is associated with 'Oxygen'. Below this are 'Clothing' and 'Medicines' (represented by pill bottles and pills). In the center, 'Flowers' (broccoli) and 'Leaves' (spinach) are shown. On the right, 'Lumber' (wood planks) is displayed. At the bottom, 'Roots' (carrots and sweet potatoes) are shown.

Across

2. The reproductive organ of a plant that makes the seed.
4. D_____ Dry Fruits: A dry fruit that splits at maturity releasing the seeds.
7. Green leaves that cover the outside of a flower bud to protect the flower before it opens.
12. Fleshy _____ Fruits: Form from a cluster of several flowers. Ex-Pineapple, Fig
13. Sticky bulb in the center of the flower. Receives the pollen grains.
15. The colorful, often bright part of the flower. They attract pollinators and are pretty
17. _____ Ivy: a North American climbing plant of the cashew family that secretes an irritant oil from its leaves, which can cause dermatitis.
19. Inner covering of the fruit, the stiff area around the seed. "Stone" "Pit"
20. Leaf M_____: The edge of the leaf.
22. On bottom of the flower, has the seeds inside and turns into the fruit. Contains the ovules.
24. Plants and shrubs that lose leaves in fall and grow them back in spring.
27. This fruit has a core as the true fleshy fruit, and it's surrounded by a fleshy good accessory layer. Ex-Apple, Pear
29. A fleshy fruit that contains one to many seeds. (No stony layer) Ex-Tomato, Grape
30. Plants that live for many years producing seeds each year.

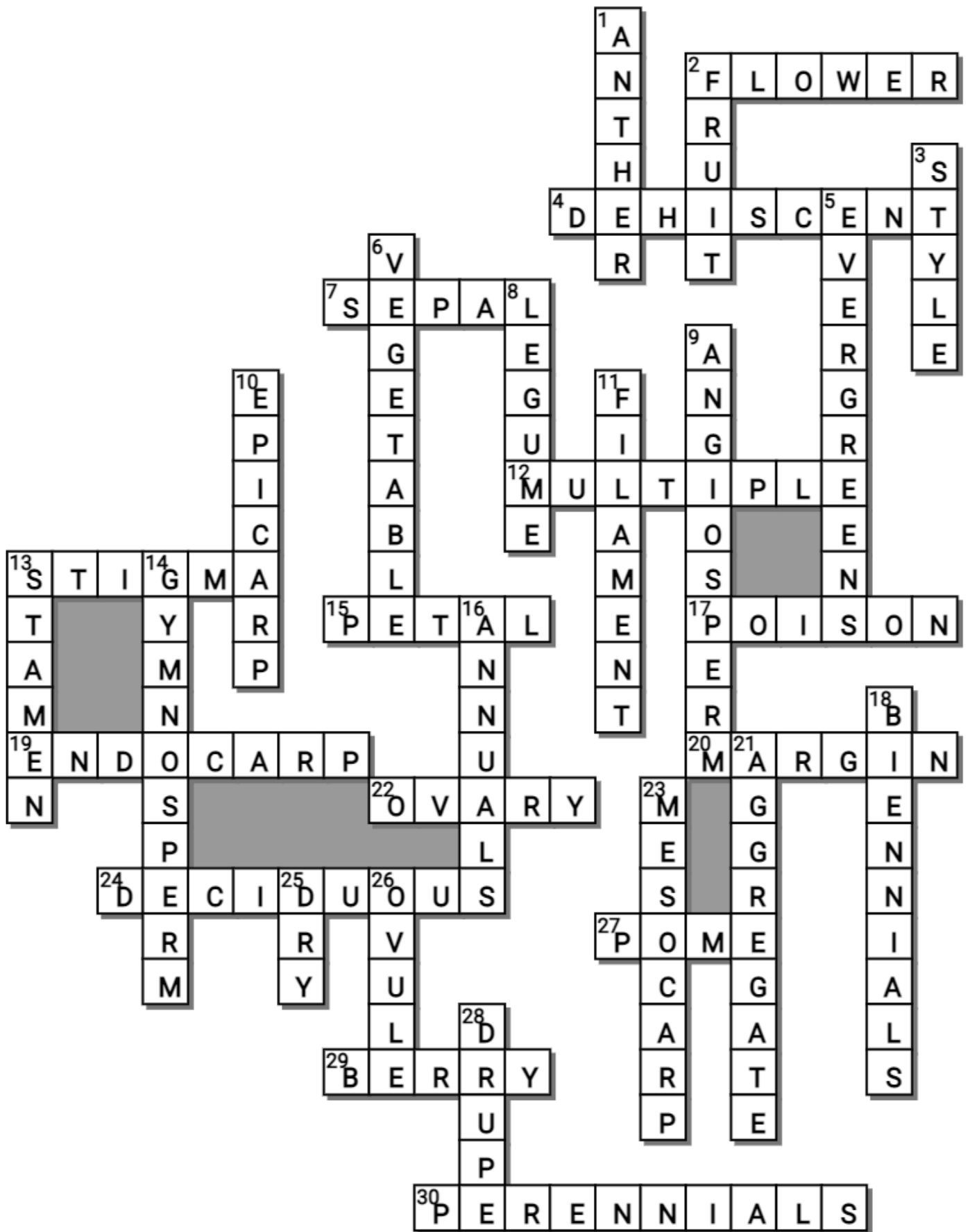
Down

1. Part of the stamen that holds the pollen.
2. The matured ovary in the pistil. Contains the seed.
3. Long stalk that the stigma sits on top of.
5. Needles can survive winter, trees constantly grow and drop needles.
6. Edible part of a plant that is not a sweet fruit or seed. Stalk, leaves, root, etc.
8. An elongated pod splitting along two seams. (Beans)
9. Flowering, covered seed, produce seeds enclosed in a fruit /ovary.
10. This is the outer covering of the fruit. "skin"
11. Supports the anther.
13. Male part of flower
14. Non-flowering, seeds usually arranged on a cone.
16. Seed germinates, grows, and produces new seed, before dying.
18. Plant lives through first winter and produces seed before dying.
21. Fleshy _____ Fruits: Develop from flowers with many pistils. Ex-Strawberry, Blackberry
23. This is the Middle covering. "Flesh" of the fruit
25. Indehiscent ____ Fruits: Pericarp does not split open. These fruits usually contain only one seed (Nuts)
26. The part of the ovary that becomes the seeds.
28. This is a type of fleshy fruit that has a stony inner layer surrounding a single seed. Ex-Plum, Peach

-----teacher can remove this word bank to make puzzle more challenging-----

Possible Answers

AGGREGATE, ANGIOSPERM, ANNUALS, ANTHER, BERRY, BIENNIALS, DECIDUOUS, DEHISCENT , DRUPE, DRY , ENDOCARP, EPICARP, EVERGREENS, FILAMENT, FLOWER, FRUIT, GYMNASPERM, LEGUME, MARGIN, MESOCARP, MULTIPLE , OVARY, OVULE, PERENNIALS, PETAL, POISON, POME, SEPAL, STAMEN, STIGMA, STYLE, VEGETABLE



Part 5 Review Game Lesson 9

1-10 = 10 pts * = Bonus + 1 pt,
 (Secretly write owl in correct space +1 pt)
 Final Question = 5 pt wager

Name: _____
 Due: Today
 Score ____ / 100

IDENTITY CRISIS	THE WONDER YEARS	BOYS AND GIRLS	TOOTY FRUITY	BIG BERRY Bonus round 1 pt each
1) White Oak (<i>Quercus alba</i>)	6) Perennial (owl +1)	11) Pollen	16) Letter C	*21) CHRUNCH BERRIES
2) Maples	7) Biennals	12) Letter A (Has male and female)	17) Sepals	*22) FRUIT STRIPES
3) North Atlantic White Cedar (<i>Chamaecyparis thyoides</i>)	8) Deciduous	13) A=Anther B=Filament C=Stamen	18) Fruit	*23) BLUEBERRIES FOR SAL
4) Hemlock (<i>Tsuga</i> is a genus of conifers)	9) Sexual Egg Zygote	14) Ovary	19) A=Vegetable B= Fruit	*24) PAUL BUNYAN AND BABE
5) White Pine (<i>Pinus strobus</i>)	10) Angiosperm Gymnosperm	15) A=Stigma B=Style C=Pistil	20) Drupe Exocarp Mesocarp Endocarp	*25) FRUIT OF THE LOOM

Final Question Wager ____/5 Answer: Aggregate Fruit, Dehiscent Dry Fruit, Pome, Berry