



Materials:

1. Plastic lunch baggies
2. Leaf picture sheets
3. Crayons
4. Paper
5. Your neighborhood

Instructions

1. Cut out the leaf shapes from the handout either individually, or in groups (2 or 4, etc.)
2. Place your cutout shapes into plastic lunch baggies.
3. Walk through your neighborhood and pick leaves of different types.
4. Place the leaves into the appropriate baggies.
5. When you get home, organize leaves on a table with the back of the leaf facing up.
6. Place the piece of paper on the leaves.
7. Rub the side of the crayons on the paper over the leaves to form an imprint of the leaves.
8. Write the type of leaf and draw arrows to the image of its parts on the paper.

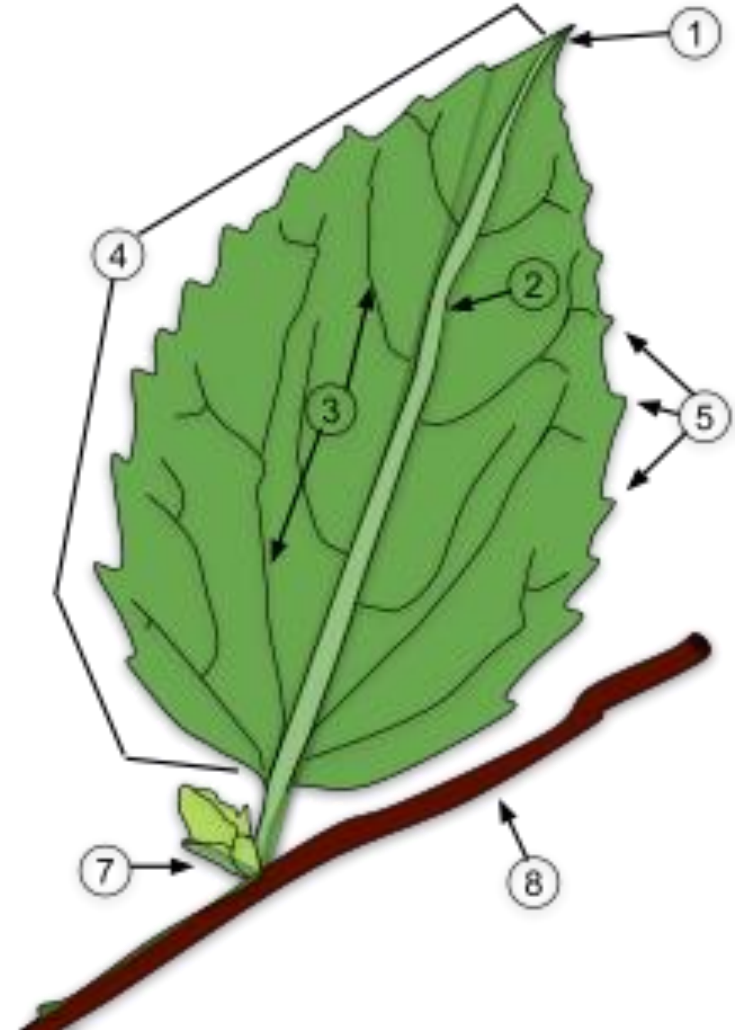


Leaf of *Tilia tomentosa* (Silver lime tree)

[Image Credit](#)

Diagram of a simple leaf.

1. Apex
2. Midvein (Primary vein)
3. Secondary vein.
4. Lamina.
5. Leaf margin
6. Petiole
7. Bud
8. Stem



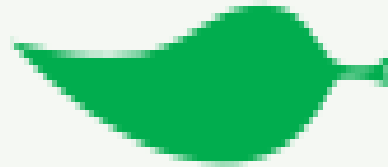
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SHAPE & ARRANGEMENT



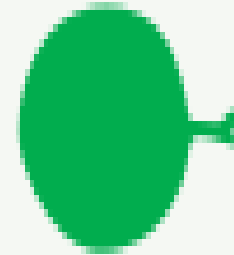
Acicular

needle shaped



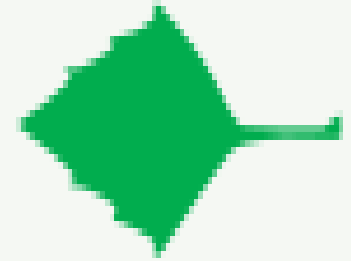
Falcate

hooked or sickle shaped



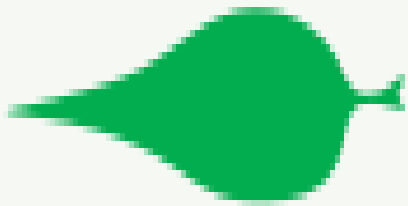
Orbicular

circular



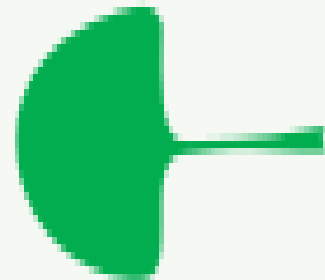
Rhomboid

diamond-shaped



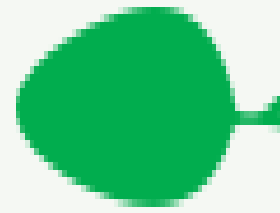
Acuminate

tapering to a long point



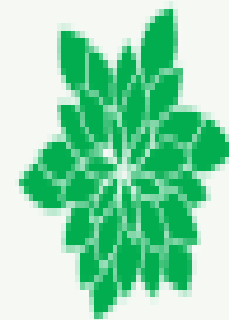
Flabellate

fan shaped



Ovate

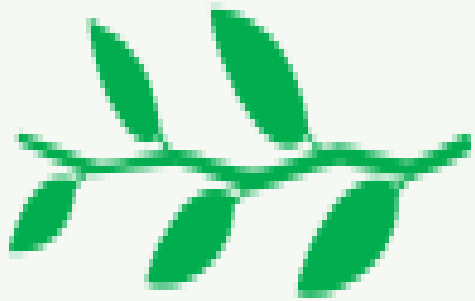
egg-shaped, wide at base



Rosette

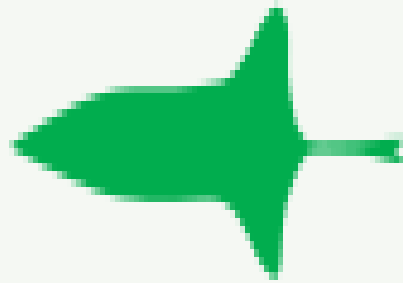
leaves in tight circular rings

SHAPE & ARRANGEMENT



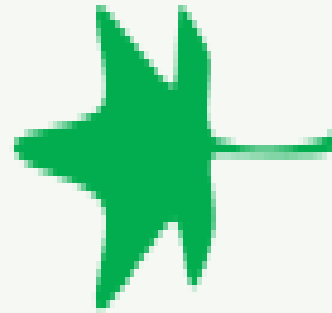
Alternate

leaves arranged alternately



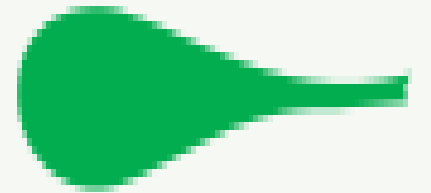
Hastate

triangular with basal lobes



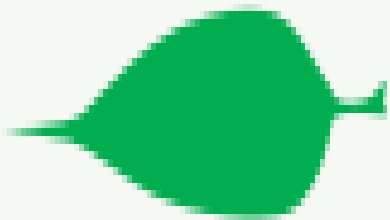
Palmate

resembles a hand



Spatulate

spoon-shaped



Aristate

with a spine-like tip



Lanceolate

pointed at both ends



Pedate

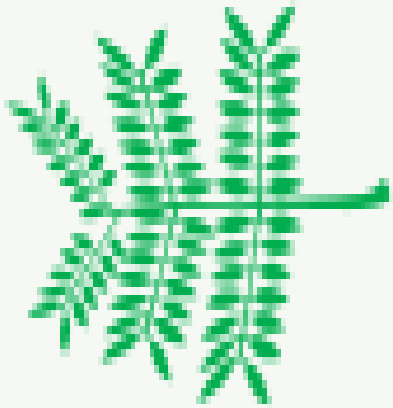
palmate, divided lateral lobes



Spear-shaped

pointed, barbed base

SHAPE & ARRANGEMENT



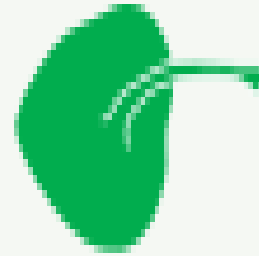
Bipinnate

leaflets also pinnate



Linear

parallel margins, elongate



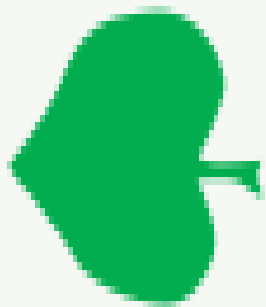
Peltate

stem attached centrally



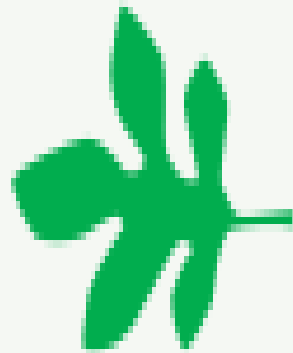
Subulate

tapering point, awl-shaped



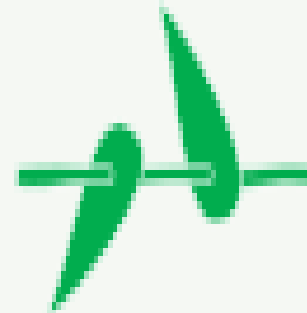
Cordate

heart-shaped, stem in cleft



Lobed

deeply indented margins



Perfoliate

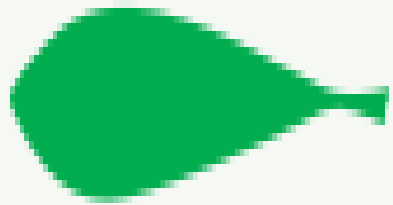
stem seeming to pierce leaf



Trifoliate/Ternate

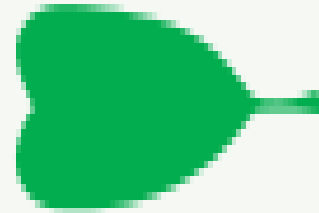
leaflets in threes

SHAPE & ARRANGEMENT



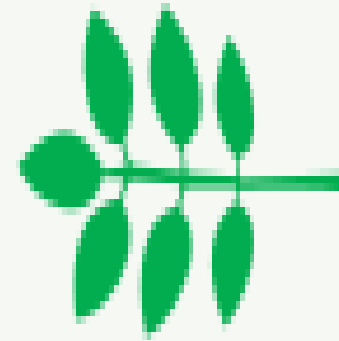
Cuneate

wedge shaped, acute base



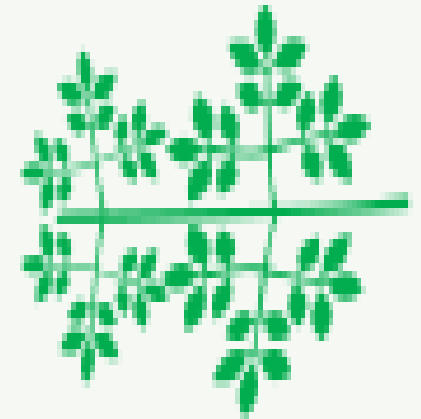
Obovate

heart-shaped, stem at point



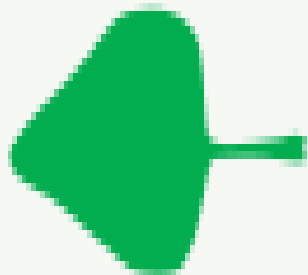
Odd Pinnate

leaflets in rows, one at tip



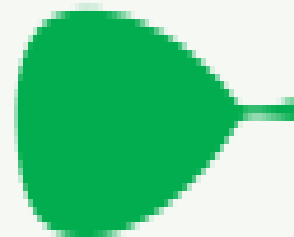
Tripinnate

leaflets also bipinnate



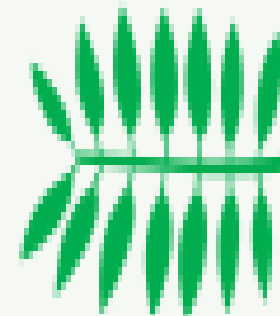
Deltoid

triangular



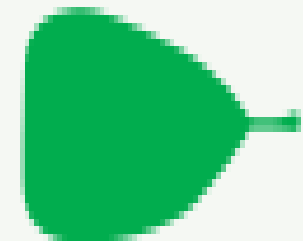
Obovate

egg-shaped, narrow at base



Even Pinnate

leaflets in rows, two at tip



Truncate

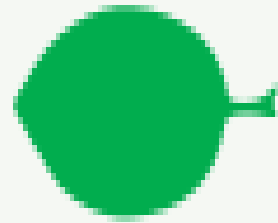
squared-off apex

SHAPE & ARRANGEMENT



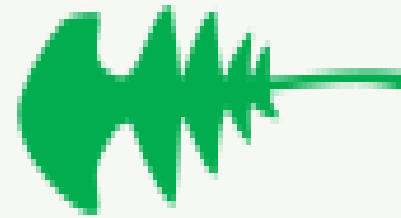
Digitate

with finger-like lobes



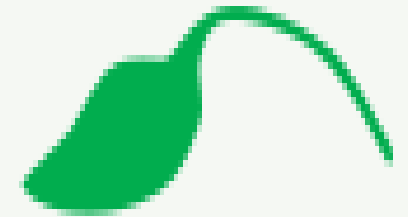
Obtuse

bluntly tipped



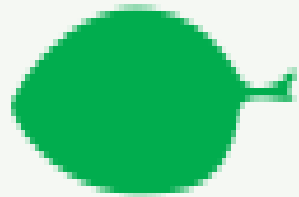
Pinnatisect

deep, opposite lobing



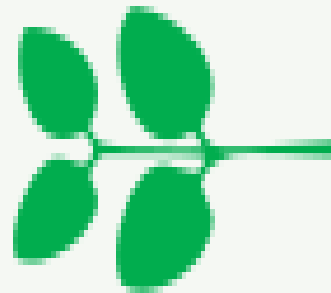
Unifoliate

having a single leaf



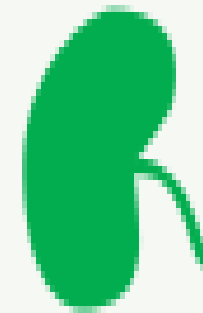
Elliptic

oval-shaped, small or no point



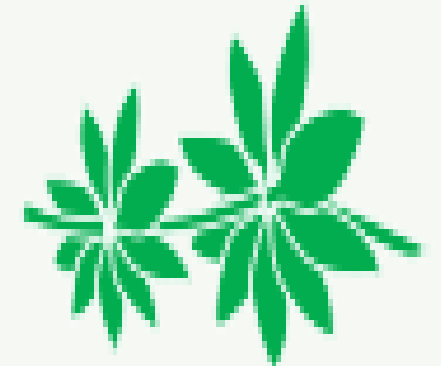
Opposite

leaflets in adjacent pairs



Reniform

kidney-shaped



Whorled

rings of three or more leaflets

Questions

1. Which leaf types have geometric shapes?
2. What leaf types have leaflets?
3. What are opposite and whorled leaves?



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