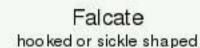
SHAPE & ARRANGEMENT



Acicular needle shaped





Flabellate fan shaped



Orbicular circular



Rhomboid diamond-shaped



Rosette egg-shaped, wide at base leaflets in tight circular rings



Acuminate

tapering to a long point

Alternate leaflets arranged alternately



Hastate triangular with basal lobes



Ovate

Palmate resembles a hand



Spatulate spoon-shaped



Lanceolate pointed at both ends



palmate, divided lateral lobes



Spear-shaped pointed, barbed base



Aristate

with a spine-like tip

Bipinnate leaflets also pinnate



Linear parallel margins, elongate



Peltate stem attached centrally



Subulate tapering point, awl-shaped



Cordate he art-shaped, stem in cleft



Lobed deeply indented margins stem seeming to pierce leaf



Perfoliate



Trifoliate/Ternate le aflets in threes



Cuneate wedge shaped, acute base



Obcordate heart-shaped, stem at point leaflets in rows, one at tip



Odd Pinnate



Tripinnate leaflets also bipinnate



Deltoid triangular



Obovate



Even Pinnate egg-shaped, narrow at base leaflets in rows, two at tip



Truncate squared-off apex



Digitate with finger-like lobes

Elliptic

oval-shaped, small or no point leaflets in adjacent pairs



Obtuse bluntly tipped

Opposite



Pinnatisect deep, opposite lobing



Reniform kidney-shaped



Unifoliate having a single leaf



Whorled rings of three or more leaflets

MARGIN



Ciliate with fine hairs



Denticulate with fine dentition



Lobate indented, but not to midline



Sinuate with wave-like indentations



Crenate with rounded teeth



Doubly Serrate serrate with sub-teeth



Serrate teeth forward-pointing



Spiny with sharp stiff points



Dentate with symmetrical teeth



Entire even, smooth throughout



Serrulate with fine serration



Undulate widely wavy

VENATION



Arcuate secondary veins bending toward apex



Longitudinal veins aligned mostly along long axis of leaf



Pinnate secondary veins paired oppositely



Cross-Venulate small veins connecting secondary veins



Pal mate several primary veins diverging from a point



Reticulate smaller veins forming a network



Dichotomous veins branching symmetrically in pairs



Parallel veins arranged axially, not intersecting



Rotate in peltate leaves, veins radiating