

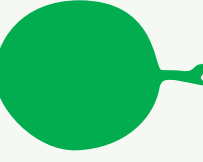













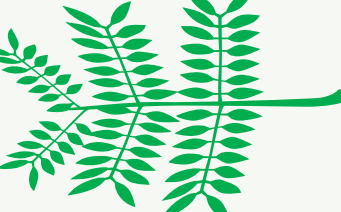



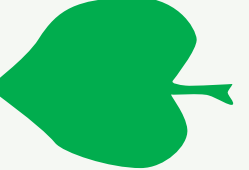

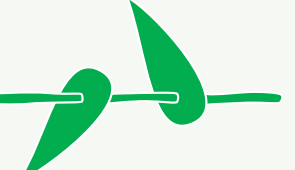
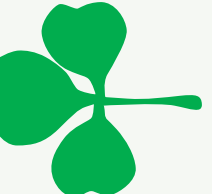


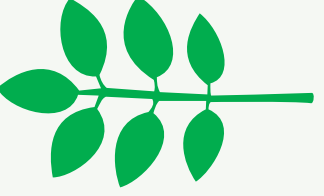
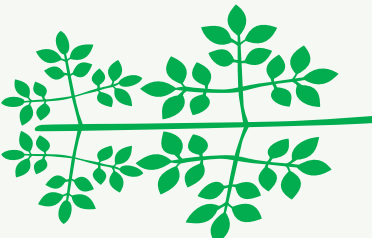






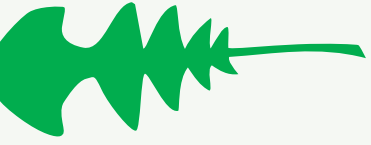


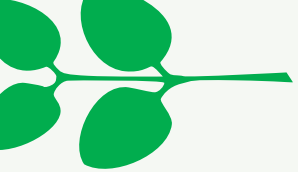

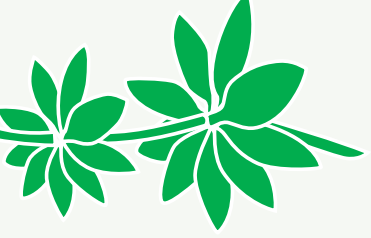
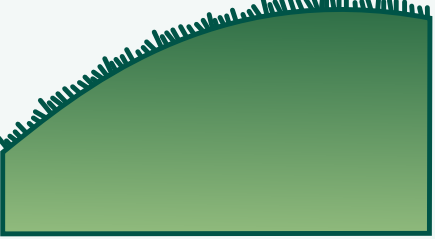


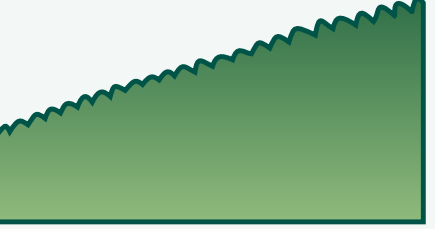
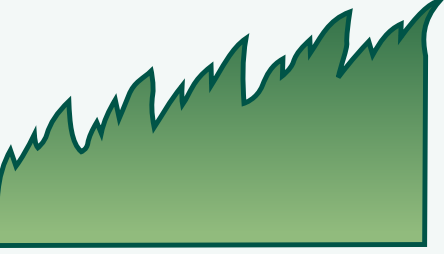
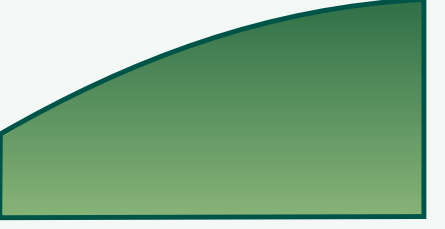


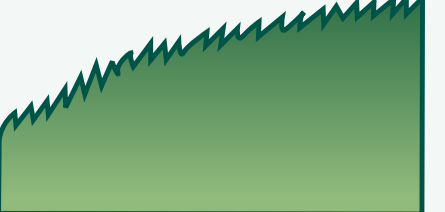

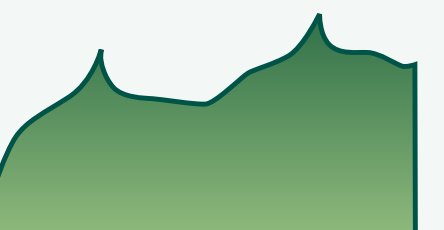



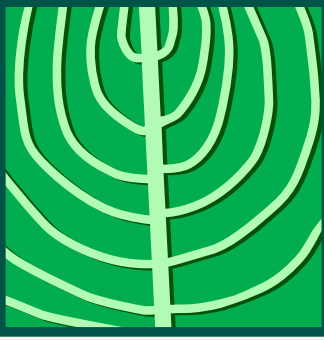




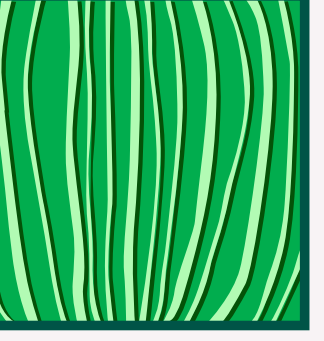
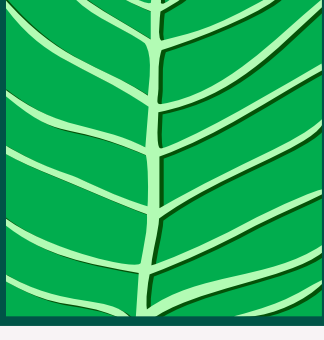


SHAPE & ARRANGEMENT

 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 leaflets in tight circular rings
 Alternate leaflets 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
 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
 Cuneate wedge shaped, acute base	 Obcordate 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
 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

MARGIN

 Ciliate with fine hairs	 Crenate with rounded teeth	 Dentate with symmetrical teeth
 Denticulate with fine dentition	 Doubly Serrate serrate with sub-teeth	 Entire even, smooth throughout
 Lobate indented, but not to midline	 Serrate teeth forward-pointing	 Serrulate with fine serration
 Sinuate with wave-like indentations	 Spiny with sharp stiff points	 Undulate widely wavy

VENATION

 Arcuate secondary veins bending toward apex	 Cross-Venulate small veins connecting secondary veins	 Dichotomous veins branching symmetrically in pairs
 Longitudinal veins aligned mostly along long axis of leaf	 Palmate several primary veins diverging from a point	 Parallel veins arranged axially, not intersecting
 Pinnate secondary veins paired oppositely	 Reticulate smaller veins forming a network	 Rotate in peltate leaves, veins radiating