An introduction to Wildflowers – Part 1



The Buttercup family (Ranunculaceae)

~35 species in UK ~2,500 species globally

Key characteristics

- Herbs
- 5 delicate mostly yellow petals
- 5 sepals
- Many stamens
- Alternate leaves, often lobed



Bulbous Buttercup



Lesser Spearwort

British wild species

- Meadow Buttercup (Ranunculus acris)
- Lesser Celandine (Ranunculus verna)
- Wood Anemone (*Anemone nemorosa*)
- Lesser Spearwort (Ranunculus flammula)
- Globeflower (*Trollius europaeus*)
- Around the world
- Larkspurs (*Delphinium*)
- Clematis
- Christmas Rose
- Winter Aconite

- Ornamental e.g. Delphinium, Aconitum, Clematis and Anemone
- Medicine Goldenseal
- Poison! Monkshood (Aconitum)
- Spice Nigella

Master your Buttercups with the Magic 5!		
Lesser Celandine Marsh-marigold Wood Anemone Traveller's-joy HELP!	nnal lobe slightly separated	
Lesser Spearwort I	pals point backwards	
Greater Spearwore		
TWITCHER Adder's-tongue Spears Pasqueflower Monk's-hood Globeflower Pheasant's –eye	wort	

The Pea family (Fabaceae)

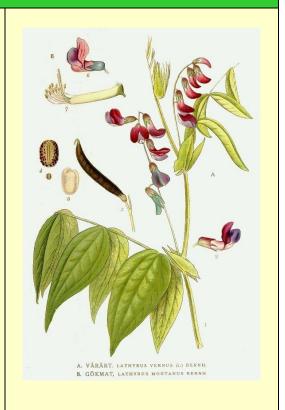
~73 British members >19,000 species globally Also known as: Legumes

Key characteristics

- Irregular flowers single upper petal, two wing petals at sides, two lower petals forming a boat-shaped keel
- Fruit: pea pod
- Pinnate or trifoliate leaves, sometimes spines as in gorse.
- Often climb on tendrils



Sweet Pea



Key British species

- Common Gorse (*Ulex europaeus*)
- Red Clover (*Trifolium pratense*)
- Tufted Vetch (Vicia cracca)
- Common Bird's-foot-trefoil (Lotus corniculatus)
- Common Restharrow (Ononis repens)

Around the world

- Acacia
- Common Laburnum
- Garden Pea
- Green Bean
- Peanut

- Livestock fodder e.g. Clover, Lupin
- Human food essential source of protein (legumes, pulses)
- Timber Some Acacia species used for timber.
- Medicinal Dried leaves of Cassia are the purgative known as Senna.
- Fertiliser Nitrogen-fixing bacteria in the root nodules of pea species convert nitrogen from the air to nitrates that are usable by other plants.

Master your Peas with the Magic 5!		
BEGINNER Red Clover		
INTERMEDIATE Restharrow Horseshoe Vetch Hairy Tare Dwarf Gorse Black Medick		
ADVANCED Lesser Trefoil Suffocated Clover Kidney Vetch Ribbed Melilot Sickle Medick HELP! Trefoils. Hop Trefoil - h	airy, hop-like bended down flowers. Lesser Trefoil - hairless, flower	
TWITCHER Yellow Vetchling Suffocated Clover Subterranean Clover Purple Milk-vetch Bithynian Vetch		

The Carrot family (Apiaceae)

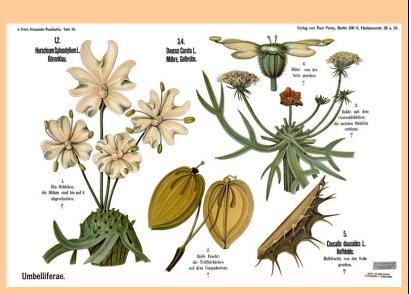
~54 species in the UK
~3500 species globally
Also known as: Umbellifers

Key characteristics

- Alternate leaves
- Small yellow, white or cream flowers with 5 separate petals
- Umbels flowers elevated on stalks all originating from one point at the top of the main stem
- Usually hollow stems
- Varied and interesting seedpods



Cow Parsley



British wild species

- Cow Parsley (Anthriscus sylvestris)
- Wild Carrot (Daucus carota)
- Hemlock Water-dropwort (Oenanthe crocata)
- Pignut (Conopodium majus)
- Hemlock (Conium maculatum)

Around the world

- Garden Angelica
- Coriander
- Cumin
- Dill

Uses

- Food Root crops e.g. carrot and parsnip; Stems e.g. celery; Leaves e.g. parsley, coriander and dill; Fruits or seeds e.g. caraway, cumin and fennel
- Medicinal Gastrointestinal complaints, Cardiovascular ailments, Stimulants, Sedatives, Ginseng
- Poison
- Ornamental E.g. Hogweeds and Astrantia

WARNING - MANY MEMBERS OF THIS FAMILY ARE TOXIC AND ALL SHOULD BE TREATED WITH CAUTION!!!

Master your Carrots with the Magic 5!				
BEGINNER Hogweed Cow Parsley Wild Carrot Hemlock Water-dropy Sea Holly	vort 🗆		_	
Angelica Wild Parsnip Hemlock			_	
ADVANCED Sanicle Burnet Saxifrage Stone Parsley Whorled Caraway Confidently tell apart Cow Parsley, Upright Hedge-parsley, Rough Chervil HELP! Sanicle – tiny white ball like inflorescences. Burnet Saxifrage – leaves made of separate lobes. Stone Parsley – petrol smell. Whorled Caraway – whorls of needle-like leaves. 1 Cow Parsley – unspotted, hollow stem, flowers in May 2 Rough Chervil – stem ridges and spotted, follows Cow parsley, flowering June-July 3 Upright Hedge-parsley – solid slender rough stem, burred fruits, flowers July-August				
TWITCHER Shepherd's-needle Hartwort Spignel Narrow-leaved Water- Marsh Pennywort	-dropwort			

The Daisy family (Asteraceae)

~120 species in the UK ~25,000 species globally Also known as: Sunflower family

Key characteristics

- Flowerheads made up of many tiny flowers (florets) often divided into rays and discs, e.g. in Daisy, disc florets are yellow, ray florets are white.
- Often have seeds with pappus that are wind-distributed.



Oxeye Daisy



Key British species

- Dandelion (Taraxacum officinale)
- Daisy (Bellis perennis)
- Black Knapweed (Centaurea nigra)
- Common Ragwort (Senecio jacobaea)
- Spear Thistle (Cirsium vulgare)

Around the world

- Jerusalem artichoke
- Lettuce
- Chrysanthemum

- Liqueur Artemisia absinthium is the source of the essential oil used to flavour absinthe.
- Food Jerusalem and globe artichokes, tarragon, chicory, lettuce
- Folk medicine Chamomile tea to aid sleep, Calendula for abdominal cramps and constipation, Echinacea - to stave off a cold
- Malaria treatment Artemisin

Master your Daisies with the Magic 5!		
BEGINNER Daisy Common Ragwort Oxeye Daisy Dandelion Yarrow		
INTERMEDIATE Groundsel Colt's-foot Nipplewort Pineappleweed Black Knapweed		
Smooth Hawk's-beard	rd l rd l l lack scale d - glossy	son stem. Rough Hawkbit – very hairy, forked hairs. leaves with lyre-shaped sides, flower stems branched. af clasps round in itself. Scentless Mayweed - no scent
TWITCHER Cornflower Red-tipped Cudweed Saw-wort Fen Ragwort Chamomile	 	

The Dead-nettle family (Lamiaceae)

~50 species in UK ~6,800 species globally Also known as: Mint family

Key characteristics

- Bilaterally symmetrical flowers with petals fused into upper and lower lips
- Often bitterly-aromatic
- Square stem
- Opposite leaves



Yellow Archangel



Key British species

- Water Mint (*Mentha aquatica*)
- Wild Thyme (*Thymus polytrichus*)
- Woundwort (*Stachys spp*)
- Ground Ivy (*Glechoma hederacea*)
- Bugle (*Ajuga reptans*)

Around the world (\$)

- Common Teak India and Indo-China
- Sweet Basil
- Catnip

- Timber e.g. teak and Malay Beechwood
- Herbs e.g. Sage, Mint, Oregano, Thyme, Lavender, Rosemary, Basil

Master your Dead-nettles with the Magic 5!		
BEGINNER (ish!) Yellow Archangel Selfheal White Dead-nettle Red Dead-nettle Water Mint		
INTERMEDIATE Common Hemp-nett Betony Lesser Skullcap Bugle Gypsywort	:le	
ADVANCED Hedge Woundwort Basil Thyme Marjoram Black Horehound Wood Sage		
HELP! Hedge Woundwort has stalked leaves, in Marsh Woundwort they are stalkless and lanceolate. Basil Thyme – small leaves in spread out pairs, curve in calyx. Marjoram – flowers in dense terminal heads. Black Horehound - unpleasantly aromatic. Wood Sage – leaves crinkly, little smell, greenish-yellow small flowers.		
TWITCHER Meadow Clary Pennyroyal Red Hemp-nettle Downy Woundwort Ground-pine		





Magic 5 aims gently to introduce people to the magical and diverse world of the UK flora, simplifying, but at the same time inspiring a growing knowledge of our wild plant heritage.

There are over 5,000 species of flowering plants, ferns, bryophytes and lichens in the UK, which can be fairly intimidating. This course breaks down that flora into several bite-size chunks, and while it won't teach you every species, it will highlight important groups and allow you confidently to identify some commonly encountered flowering plant families based on several key features.

Other courses will introduce similar bite size chunks of the remaining four parts of the plant kingdom –opening people's eyes and imagination to the exciting, diverse yet often overlooked world of lichens, bryophytes, ferns and grasses whilst giving an overview of the whole of the UK flora.

- 1. Lichens
- 2. Bryophytes
- 3. Ferns
- 4. Grasses
- 5. Flowers

The Species Recovery Trust

is a charity dedicated to saving some of the rarest species in the UK, and educating and enthusing the public about wildlife around them.

More details of our work, our training courses and how you can support us can be found at;

www.speciesrecoverytrust.org.uk