Upper Teesdale Botany Group
'Bit of Botany' Autumn Programme 2023

Plant Form and Function

A combination of talks and a series of practical botany sessions

at Middleton-in-Teesdale Masonic Hall DL12 0SHl

7-9pm from Monday 18th September to Monday 30th October

cost £10 to cover room hire and practical materials

An understanding of the Morphology [external shape and form] and Anatomy [internal structure and arrangement of tissue] can be useful when identifying species found in field work. These practical sessions will give us the opportunity to have a closer look at some of the main characteristics of roots, stems and leaves in flowering plant families.

18th September   *Session 1: Introduction to plant form and anatomy*
- Using microscopes, preparing slides
- Examples of plant cells
- Stomata

25th September   *Session 2: Dicotyledons/ monocotyledons*
- Distinguishing monocotyledons from dicotyledons: Observation of main parts of germinating seeds in broad bean and maize or similar
- Roots: Internal arrangement of root tissue

2nd October   *Talk by Dr. Pat Doody*

9th October   *Session 3: Stems*
- Stems / stolons / rhizomes / runners / corms
- TS stem dicotyledon and monocotyledon
- Water uptake in vascular bundles

16th October   *Session 4: Lichen Language - An introduction to Lichen structures*
Introduction to lichen terms which form the basis of identification. Specimens provided but if you find anything that has fallen off trees, you are welcome to bring it along. Led by Sue Knight
Bring any lichen ID guides you might have.

23rd October   *Session 5: Leaves and Photosynthesis*
- Leaf skeletons
- Chlorophyll extract. Chromatography to show pigments
- Experiments to investigate the importance of light and chlorophyll in photosynthesis

30th October   *Talk by Prof. Bob Baxter*

Suitable for beginners and more experienced botanists

For more information about the Upper Teesdale Botany Group and membership, please contact infoutbg@teesdalespecialflora.uk

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www.teesdalespecialflora.uk

Teesdale Special Flora