

UNIVERSITY OF LEEDS CLASSIFICATION OF BOOKS
BOTANY

BOTANY

Tables of standard numerical subdivisions

Classmarks additional to those specifically enumerated are synthesised by combining numbers from the tables with the letters denoting the main classes.

e.g. G-41 Taxonomy of algae; K-41 Ecology of algae

Lower numbers take priority e.g. leaves of gymnosperms should be expressed as -26 not -72.

0-09: Bibliographic forms

-0.00	Textbooks STACK ONLY	see also : <i>Botany A-1</i>
-0.01	Periodicals STACK ONLY	
-0.02	Monograph series	
-0.03	Collected essays, symposia	
-0.04	Bibliographies	
-0.05	Laboratory manuals	
-0.19	Dictionaries; encyclopaedic works	

1-20: Reserved for specific topics appropriate to each main class

21-39: Parts of plants (and other phenomena)

-21	Thallus (non-vascular plants)	
-22	Vascular plants - general vegetative parts	
-23	Root	
-24	Shoot	
-25	Stem	
-25.8	Rhizome	see also -28 <i>Vegetative reproduction</i>
-25.9	Tuber	see also -28 <i>Vegetative reproduction</i>
-26	Leaf	see also -37

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- 26.01 Phyllotaxis
- 26.02 Buds
- 26.03 Development
- 26.04 Aquatic
- 26.05 Subterranean
- 26.1 Petiole
- 26.2 Stipule
- 26.3 Epidermis
- 26.5 Stomata
- 26.7 Colouration *Photosynthesis: see Botany E-2*
Pigment biochemistry: see General Biology U-3.2
- 27 Spores; reproduction in cryptogams (mosses, liverworts, ferns etc)
- 28 Vegetative reproduction
 - 28.8 Regeneration; cuttings
 - 28.9 Grafting
- 29 Flower
 - 29.01 Arrangement *not flower arranging*
 - 29.02 Buds *see also -26.02*
 - 29.03 Development *see also -26.03*
 - 29.07 Inflorescence
 - 29.08 Polymorphism
 - 29.09 Pollination *see also K-18.7*
 - 29.1 Receptacle
 - 29.2 Sepals
 - 29.3 Petals
 - 29.4 Stamens
 - 29.5 Carpels *Include: ovule, ovary, stigma, style*
 - 29.6 Embryo sac *see also -30.1*
 - 29.7 Pollen
 - 29.9 Nectaries *see also -31*
- 30 Fruit
 - 30.1 Embryo *see also -34*
- 31 Glands
- 32 Sense organs
- 33 Miscellaneous organs

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- 33.8 Hairs
- 34 Seeds; viability and germination
- 35 Seedlings (and sporelings)
- 36 Growth; auxins
- 37 Abscission
- 38 Pathology, injury and disease, wounds, infection
- 39 Miscellaneous eg wilting, senescence

40-79: Taxonomic (systematic) divisions

40-69: Cryptogams

- 40 Thallophytes - general
- 41 Algae *Lichens: see -44*
 - Cyanophyta (blue-green algae)
 - Chlorophyta (green algae); charophytes; euglenoids
 - Rhodophyta (red algae); Cryptophyta
 - Chromophyta (brown algae); diatoms; dinoflagellates etc
- 42 Schizomycetes; Actinomycetes
- 43 Fungi (mycology)
 - 43.1 Phycomycetes
 - 43.2 Ustilaginales
 - 43.3 Yeasts; Ascomycetes
 - 43.4 Uredineae (rusts)
 - 43.5 Basidiomycetes (mushrooms and toadstools)
 - 43.8 Slime moulds (Myxomycetes or Mycetozoa)
 - 43.9 Fungi imperfecti; Hyphomycetes
- 44 Lichens (associations of fungi with algae)
- 50 Bryophytes
 - 51 Liverworts (Hepaticae)
 - 52 Mosses (Musci)
- 60 Pteridophytes
 - 61 Ferns (Filicineae)
 - 62 Horsetails (Equisetineae)

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-63 Clubmosses (Lycopodineae)

70-79: Phanerogams

-70 Spermatophytes
-71 Pteridosperms
-72 Gymnosperms, conifers
-75 Angiosperms, flowering plants
-76 Monocotyledons (Grasses, sedges, orchids)
-77 Dicotyledons

80-89: Geological periods

-80 Archaeon [not fossil bearing]
Eozoic [not fossil bearing]
-81 Palaeozoic
Cambrian
Ordovician
Silurian
Devonian
Carboniferous
Permian
-82 Mesozoic
Triassic
Jurassic
Cretaceous
-83 Tertiary
Eocene
Oligocene
Miocene
-84 Quaternary

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90-99: Geographical divisions

- 90 Temperate regions
- 91 Europe (including Russia)
- 92 British Isles
 - 92.1 Ireland
 - 92.2 Channel Islands
 - 92.3 Scotland
 - 92.4 Wales
 - 92.5 South-east England
 - 92.51 Bedfordshire
 - 92.52 Buckinghamshire
 - 92.53 Hertfordshire
 - 92.54 Essex
 - 92.55 London (including Middlesex)
 - 92.56 Surrey
 - 92.57 Sussex
 - 92.58 Kent
 - 92.6 South-west England (includes Monmouth, Isles of Scilly)
sub-divide by letter eg SOM = Somerset
 - 92.7 Midlands
sub-divide by letter eg WAR = Warwickshire
 - 92.8 Northern counties (includes Berwick)
sub-divide by letter eg NOT = Nottinghamshire
 - 92.9 Yorkshire
 - 92.99 Leeds
- 93 Asia, Oceania and Pacific Islands, Indonesia
- 94 Africa
- 95 North America
- 96 South America
- 97 Australasia
- 98 Arctic and Antarctic (polar regions)
- 99 Marine (seas, oceans)

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[A General]

- A-0.00 Textbooks before 1950 *Stack only - prefer Botany A-1*
- A-0.01 Periodicals *Stack only - otherwise in General Biology A-0.01*
- A-0.02 Monograph series, including publications of Societies
- A-0.03 Collected essays; reprinted collections of readings; symposia
- A-0.04 Bibliographies
- A-0.05 Laboratory manuals
- A-0.06 [History and biography *see* History of Science]
Plant collecting
- A-0.07 Herbaria
- A-0.08 Botanic gardens
- A-0.19 Dictionaries, encyclopaedic works
- A-0.99 Botanical illustration
- A-1 Textbooks
- A-1.5 Peat

B-0 Palaeobotany

- Use divisions 40 - 79 (Systematic groups)
and divisions 80 - 84 (Geological periods) B-84 Quaternary and recent
see also Botany C-29.7 Palynology
Geology P-10

C-0 Morphology

- Do *not* use divisions 40 - 79
- C-1 Membranes *see also* General Biology M
for Epidermis use -26.3
- C-5 Vascular tissues; xylem and phloem
- C-9 Miscellaneous *not used*
Ultrastructure: see General Biology L

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D-0 Cytology

Stack only. See also General Biology G

- D-1 Cytoplasm
- D-3 Plastids *see also General Biology L-8.5*
- D-4 Cell wall *see also General Biology L-5*
- D-5 Cell formation

[D Agricultural botany]

- D-0 General eg plant growth substances
- D-1 Diseases of plants, general including immunology. Plant pathology
- D-10 Disease-causing plants
- D-11 Bacteria, Microbiology. Plant pathogens
- D-12 Fungi. Plant pathogens
- D-13 Viruses. Plant pathogens
- D-15 Weeds
- D-20 Field crops, general
- D-21 Grassland
- D-22 Cereals
- D-23 Root crops
- D-24 Forage crops
- D-28 Tropical crops
- D-29 Oilseed crops; Miscellaneous (e.g. Mushrooms) crops
- D-30 Horticulture, general
- D-31 Fruit
- D-32 Vegetables
- D-33 Flowers and ornamental plants
- D-39 Miscellaneous eg Hydroponics
- D-40 Forestry, Trees, Agroforestry

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E-0 Physiology & biochemistry

See also General Biology U

- E-1 Phytochemistry *see also General Biology U*
- E-2 Photosynthesis (of carbohydrate)
- E-3 Nitrogen metabolism (fixation, amino acids, proteins)
- E-4 Respiration (release of energy)
- E-5 Enzymes *see also General Biology U-2*
- E-6 Inorganic substances
- E-7 Organic substances [including herbicides]
- E-8 Nutrition including trace elements *see also Applied Biology C-45*
- E-9 Poisonous plants *see also Botany D-10*
- E-10 Physical aspects of physiology
- E-12 Photoperiodism, circadian rhythms
- E-13 Transpiration and translocation; sap-flow
- E-14 Movements (tropism, taxis, nastic)
- E-15 Temperature *see also K-16*
- E-16 Water relations
- E-19 Miscellaneous; stress
- E-36 Growth; auxins, kinins, gibberellins, brassins (plant hormones)
- E-37 Abscission
- E-39 Senescence (Aging)

[F Evolution]

- F-0 Evolution - general
- F-1 Variation
- F-20 Fertilization; reproductive mechanisms

G-0 Taxonomy & forms; Floras

Use divisions 40 - 79 (Systematic groups)
and divisions 90 - 99 (Flora of specific areas)

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K-0 Ecology

Adaptation to special environments. Including physiological aspects

See also General Biology J

- K-1 Aquatic
- K-2 Marsh and bog
- K-3 Salt marsh *Halophytes: see K-11*
- K-4 Waste
- K-5 Deserts and steppe
- K-6 Grassland, prairie etc
- K-7 Bush and forest
- K-8 Moorland
- K-9 Miscellaneous; climate
- K-10 Soil - plant interaction *Soil physics: Applied Biology C-43*
- K-11 Salt tolerance & toxicity
Halophytes & xerophytes
- K-12 Inorganic substances *see also E-6*
- K-13 Organic substances *see also E-7*
- K-14 Air
- K-15 Light *see also E-2*
- K-16 Temperature *see also E-15*
- K-17 Interaction with other plants (including Allelopathy)
 - K-17.5 Epiphytes
 - K-17.6 Symbiosis; mycorrhiza; root nodule bacteria
 - K-17.7 Parasitism
 - K-17.8 Saprophytism
- K-18 Interactions with animals
 - K-18.6 Carnivorous plants
 - K-18.7 Pollination
 - K-18.8 Galls; pathology
- K-19 Climbing plants; mimicry
- K-20 Virus diseases *see also D-13*

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L-0 Economic botany

See also Applied Biology D

- L-1 Forestry *see also D-40*
- L-2 Gardens; house plants
- L-3 Farm crops
- L-4 Sugar cane and sugar beet *see also Food F-3.1*
- L-5 Vegetables
- L-6 Fruit
- L-8 Fibre
- L-9 Rubber; dyes; drugs

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