

CUSTOM MICROSCOPE SLIDE SET

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BOTANY - STEMS MICROSCOPE SLIDES

Typical Stems in Comparison

CAT.#	DESCRIPTION	QTY
As305e	Monocot and dicot stems, two t.s. on one slide for comparison of the different structures	
As3052e	Monocot and dicot stems, two l.s. on one slide	
As3054e	Dicot and monocot stem, t.s. of Helianthus and Canna, on same slide	
As3055e	Dicot and monocot stem, t.s. of Ranunculus and Zea, on same slide	
As306e	Stems of annual and perennial plants, two t.s. on one slide	
As3065e	Sun and shadow stems, two t.s. on one slide	
As307e	Herbaceous and woody stems, two t.s. on one slide	
As3942f	Dicot stem, Aristolochia, t.s. of one year stem with widely separate bundles, two years stem and older stem with anomalous structure all 3 in on slide	
As3944e	One year stem with active cambium and older stem with secondary structures, Tilia, two t.s.	
As3432e	Helianthus, young and older stem, two t.s. on one slide	
As3424e	Helianthus, of older stem, t.s. and l.s. on one slide	

Typical Monocot Stems

CAT.#	DESCRIPTION	QTY
As311c	Zea mays, typical monocot stem with scattered bundles, t.s., a standard slide for general study	
As310c	Zea mays, corn, young undifferentiated stem t.s.	
As3115c	Zea mays, stem with leaf sheaths t.s.	
As312c	Zea mays, stem with vascular bundles l.s.	
As3941e	Zea mays, t.s. and l.s. of monocot stem on one slide	
As317c	Lilium, lily, t.s. of stem showing assimilating parenchyma	
As3203c	Tulipa, tulip, t.s. of stem	
As3989c	Allium, l.s. of a subterranean bulb	
As3172c	Allium sativum, stem t.s.	
As3988c	Asparagus, t.s. of stem	
As3204c	Dianthus, pink, t.s. of stem	
As315c	Triticum, wheat, t.s. through the stem of a gramineous plant with pith cavity and the ring-shaped arrangement of vascular bundles	
As316d	Triticum, l.s. transition node – internode	
As3162c	Secale, rye, t.s. of typical grass stem	
As323c	Holcus lanatus, grass, stem t.s.	
As320c	Acorus calamus, sweet flag, rhizome t.s.	
As321c	Convallaria, lily of the valley, t.s. of rhizome with concentric vascular bundles	
As322c	Iris, rhizome t.s. showing storage of starch	
As325d	Dracaena, dragon tree, stem t.s., secondary growth in a monocot plant	
As3813c	Saccharum, sugarcane, stem t.s.	
As3986c	Phragmites, reed, t.s. of monocot stem	
As3987c	Alisma plantago, t.s. of stem	

Typical Dicot Stems: Herbaceous Plants

CAT.#	DESCRIPTION	QTY
As343c	Helianthus, sunflower, typical dicot herbaceous stem t.s. showing open vascular bundles and all structures very clearly	

As3432e	Helianthus, young and older stem, two t.s. on one slide
As3424e	Helianthus, older stem, t.s. and l.s. on one slide
As3943c	Helianthus, young sprout t.s.
As376b	Helianthus, sunflower, t.s. of marrow shows large parenchyma cells
As339c	Pelargonium, geranium, t.s. through young stem of an annual plant
As340c	Pelargonium, geranium, t.s. through older stem of an annual plant showing phellogen and fascicular cambium
As344d	Cucurbita, pumpkin, l.s. of stem with sieve tubes and vascular bundles
As345d	Cucurbita, t.s. of stem showing large sieve tubes and vascular bundles
As3451e	Cucurbita, pumpkin, t.s. and l.s. of stem
As365c	Ranunculus, buttercup, t.s. of stem with open vascular bundles, no interfascicular cambium
As354c	Lamium, deadnettle, square stem with well developed collenchyma and continuous vascular cylinder t.s.
As3542c	Galium, t.s. of typical square stem showing collenchyma cells
As367c	Salvia, sage, t.s. of a square stem
As368c	Coleus, t.s. of a square stem showing collenchyma clearly
As3877c	Amaranthus, stem t.s.
As375c	Arctium lappa, burdock, stem t.s.
As3876d	Atriplex, orache, stem t.s. with bladder hairs
As374c	Bryonia, t.s. of stem showing large sieve plates
As385c	Cannabis sativa, hemp, t.s. of stem showing woody sclerenchyma fibres
As3985c	Chelidonium, celandine, t.s. of stem
As3872c	Chenopodium, goosefoot, stem t.s.
As382d	Coleus, stem with leaf base and axillary bud l.s.
As380c	Digitalis, foxglove, stem with continuous circular stele t.s.
As358c	Euphorbia, spurge, stem with lactiferous vessels l.s.
As3949c	Fuchsia, t.s. of stem
As352c	Hedera helix, ivy, stem with crystals t.s.
As359c	Hoya carnosa, wax flower, stem with stone cells t.s.
As387c	Hydrangea, stem t.s.
As3946c	Impatiens, t.s. of stem
As3565c	Lactuca, lettuce, stem t.s.
As3566c	Lactuca, lettuce, stem l.s.
As3752c	Lonicera, t.s. of young stem
As3753c	Lonicera, t.s. of older stem
As357c	Medicago, alfalfa, young stem t.s.
As3571d	Medicago, alfalfa, old stem t.s. with secondary growth
As3982c	Mercurialis, t.s. through monopodial rhizome
As3983c	Mercurialis, t.s. of stem
As3878d	Ononis, restharrow, stem t.s.
As3866c	Passiflora, passion flower, stem t.s.
As3972c	Primula, primrose, t.s. of stem
As381c	Trifolium, clover, stem t.s.

Typical Dicot Stems: Shrubs and Trees

CAT.#	DESCRIPTION	QTY
As341c	Aristolochia, one year stem t.s. for general study	
As342c	Aristolochia, older stem t.s. for general study	
As3422e	Aristolochia, one year and older stem, two t.s. on one slide	
As3423c	Aristolochia, older stem l.s. for general study	
As3426c	Aristolochia, meristematic stem t.s. showing developing vascular bundles	
As3428c	Aristolochia, macerated xylem elements w.m.	
As363c	Aesculus hippocastanum, chestnut, petiole t.s.	
As369c	Aesculus hippocastanum, chestnut, young stem (shoot) t.s.	
As386d	Aesculus hippocastanum, chestnut, twig with leaf scar t.s.	
As346c	Clematis, young hexagonal stem t.s., collenchyma	

As347c	Clematis, older stem t.s., phelloderm, phellogen, phellem
As3767c	Fagus silvatica, beech, stem t.s.
As3945c	Fagus, beech, t.s. of mature wood
As377c	Fagus, beech, macerated wood cells w.m.
As3772e	Fagus, three sections of wood: t.s., r.l.s., t.l.s.
As3505c	Fraxinus excelsior, ash, one year stem t.s.
As3506d	Fraxinus excelsior, ash, three sections of wood, t.s., r.l.s., t.l.s.
As3882d	Hibiscus tiliaceus, stem t.s.
As3899d	Liquidambar, sweetgum, woody stem t.s.
As3783d	Liriodendron, three sections of wood, t.s., r.l.s., t.l.s.
As3784c	Liriodendron, stem t.s.
As3785c	Liriodendron, stem l.s.
As3781c	Magnolia, stem, l.s.
As3895e	Magnolia, stem t.s. and l.s. in one slide
As3782c	Magnolia, macerated xylem elements w.m.
As3502d	Prunus avium, cherry, one year, two year and three year stems, three t.s. on same slide for comparison
As3475c	Quercus robur, oak, young stem t.s.
As3476c	Quercus robur, older woody stem t.s., annual rings
As3477d	Quercus robur, three sections of wood, t.s., r.l.s., t.l.s.
As388d	Rhus, poison ivy, stem t.s.
As3522d	Salix nigra, willow, three sections of wood: t.s., r.l.s., t.l.s.
As3523c	Salix, macerated xylem elements w.m.
As360c	Sambucus, elderberry, stem with lenticells t.s.
As3603d	Sambucus, three sections of wood: t.s., r.l.s., t.l.s.
As3896f	Sycamore, three sections of wood: t.s., r.l.s., t.l.s.
As348c	Tilia, lime, older woody stem t.s.
As349c	Tilia, older woody stem l.s.
As3492d	Tilia, older woody stem t.s. and l.s. on one slide
As3494c	Tilia, one year stem during the summer t.s., showing active cambium, ring-shaped primary vascular tissue
As3495c	Tilia, one year stem during the winter t.s., showing resting cambium
As3496c	Tilia, two year stem t.s., showing primary and secondary vascular tissues
As3497c	Tilia, three year stem t.s.
As3498e	Tilia, one year, two year and three year stems, three t.s. on same slide for comparison
As3499c	Tilia, young stem l.s.
As350d	Tilia, three sections of wood: t.s., r.l.s., t.l.s.
As378c	Tilia platyphyllos, lime, macerated wood cells w.m.
As351c	Vitis vinifera, grape, stem with medullary rays t.s.
As3512d	Vitis, three sections of wood: t.s., r.l.s., t.l.s.
As3884d	Wisteria sinensis, stem t.s.

Stems of Selected Useful Plants

CAT.#	DESCRIPTION	QTY
As3947c	Anthriscus, t.s. of stem	
As3948c	Asperula odorata, woodruff, t.s. of stem	
As3715c	Beta, beet, t.s. of a superterrestrial storage root	
As3911d	Brassica, cabbage, stem with leaf traces t.s.	
As3897c	Coffea arabica, coffee, stem t.s.	
As3851c	Linum, flax, t.s. of stem showing husk fibres	
As3898d	Nicotiana tabacum, tobacco, stem t.s.	
As3874d	Persea, avocado, stem t.s.	
As356c	Piper nigra, pepper, dicot stem with scattered bundles t.s.	
As362c	Ribes, currant, t.s. of stem showing cork cambium (phellogen)	
As3891c	Ricinus, castor oil bean, young stem t.s. with separate bundles	
As3892c	Ricinus, older stem t.s. with secondary xylem cylinder	

As371c	Solanum tuberosum, potato, t.s. of tuber with starch grains and cork
As3713c	Solanum tuberosum, aerial stem t.s.
As3514c	Vicia faba, stem t.s.

Adaptation to Water: Hydrophytes and Hygrophytes

CAT.#	DESCRIPTION	QTY
As3146d	Bamboo, stem t.s.	
As3984c	Caltha, march-marigold, t.s. of stem	
As3123c	Canna, t.s. of monocot stem showing scattered bundles	
As3662c	Ceratophyllum, hornwort, stem t.s.	
As3285d	Eichhornia, water hyacinth, rhizome t.s.	
As313c	Elodea, waterweed, t.s. of aquatic stem showing primitive bundle	
As3132c	Hippuris, t.s. of stem showing typical aquatic stem with large central pith	
As314c	Juncus, bulrush, stem with internal stellate cells t.s.	
As366c	Myriophyllum, water-milfoil, t.s. of aquatic stem	
As353c	Nymphaea, water lily, stem with idioblasts t.s.	
As3145c	Potamogeton, pondweed, stem with aerial chambers t.s.	
As3133c	Sagittaria, t.s. monocot stem of a hydrophytic plant	

Adaptation to Dry Habitat: Xerophytes

CAT.#	DESCRIPTION	QTY
As327d	Aloe, stem t.s. showing secondary growth in a monocot plant	
As383d	Opuntia, cactus, succulent stem t.s.	
As3734d	Leaf thorn on stem of Berberis (barberry), l.s.	
As3735d	Stem thorn on stem of Crataegus (hawthorn), l.s.	
As373d	Prickle on stem of Rosa (rose), l.s.	
As3585c	Nerium, oleander, t.s. stem to show lactiferous ducts	
As3586c	Nerium, oleander, l.s. stem to show lactiferous ducts	
As328d	Smilax, carrion flower, stem t.s.	
As3854d	Bauhinia, tropical liana, climbing stem t.s.	
As3852d	Thunbergia, liana, stem t.s. shows vascular bundles with enclosed phloem	
As326d	Yucca, stem t.s., formation of bark in a monocot plant	

Adaptation to Unusual Modes of Nutrition

CAT.#	DESCRIPTION	QTY
As355d	Cuscuta, dodder, t.s. through stem of host showing the haustoria of the parasite	
As370d	Dentaria, toothwort, l.s. through bulbil	

Petioles and Miscellaneous

CAT.#	DESCRIPTION	QTY
As4646c	Acer platanoides, maple, petiole t.s.	
As4647c	Acer platanoides, maple, l.s. stem and petiole leaf abscission	
As363c	Aesculus hippocastanum, chestnut, petiole t.s.	
As4794d	Canna indica, petiole t.s.	
As4674d	Eichhornia, petiole t.s.	
As4795d	Fragaria, strawberry, petiole t.s.	
As4671c	Nymphaea, petiole t.s.	
As4798d	Passiflora, passion flower, petiole with nectaries t.s.	
As479c	Plantago, plantain, petiole t.s.	
As4797d	Portulak, petiole t.s.	

As4793d	Vitis vinifera, petiole t.s.
As3971c	Drymis, t.s. of stem with bark
As395e	Wound healing on stem, early stage, t.s.
As396e	Wound healing on stem, later stage, t.s.
As398e	Graft scion on stem t.s.

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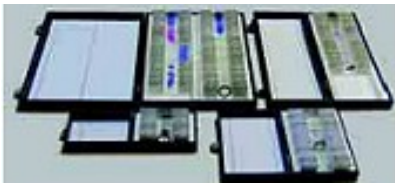
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2. Very strong hardwood cases, first-class workmanship, colourless varnish finish with brass hinges and lock, with numbered retainers to hold the slides, lining of sponged material. This is the most expensive box. As an example, the price of this box to hold 25 microscope slides is \$24.00.



3. Flat display cases constructed from strong cardboard with individual cut outs. As an example, the price of this box to hold 20 microscope slides is \$17.00.



4. Solid, pile up boxes with serrated retainer strips and transparent cover. This is the cheapest box. As an example, the price of this box to hold 25 microscope slides is \$4.50.

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