

LIEDER



MULTIMEDIA-PACKAGES FOR TEACHERS AND STUDENTS

LIEDER offers a new range of **MULTIMEDIA PACKAGES OF LIFE SCIENCE** for interactive learning and teaching in school and education. The new media aim to give a strictly outlined synopsis of all those lines of biology important for instruction at schools, colleges and universities and suitable for working with the microscope. Well selected media packages of 6 and 12 units with microscope slides, overhead transparencies, sketch- and work sheets, descriptions and pictures of the drawings serve the teacher to work with the subject during the lessons.

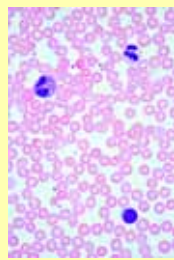
We offer **TEACHER PACKAGES** and **STUDENT SETS**.

– The teacher packages comprise all necessary media for classroom work:

1. Set of selected **prepared microscope slides in plastic box**. Prepared Microscope Slides are made in our laboratories under rigorous scientific control. They are the product of long experience combined with the most up to date techniques.
2. Set of **overhead transparencies**, large size, full color. Overhead Transparencies immediately show, on the screen, the details of the specimen required for demonstration at the most suitable magnification. The student subsequently finds it easier to locate the relevant part of the microscopic slide under the microscope. The transparencies are printed by a special process and excel by reason of their high projection quality.
3. Set of **sketch- and worksheets with drawings** for all slides. The Sketch- and Work Sheets serve to facilitate seeing his way through the prepared microscope slides and finding the detail important in the lesson. They start processes of learning and understanding by comparing microscope slides with the diagrammatic drawings, thus to identify and label the details relevant in the lesson. They allow completing or colouring the drawings according to own observations, and finally the sheets can be used for tests. Teacher may take photocopies of the sheets for the number of students.
4. **Textbook** with detailed description of all slides, drawings and transparencies. The Textbooks are intended to help you make more effective use of our teaching material both in the classroom and during individual study. They provide a description of the morphological structures involved, making it considerably easier to look for and find the relevant spots in the microscope slides. They also furnish information regarding systematic and physiological relationships and general biological principles, as well as stimulating classroom interpretation and didactic use of the observations made.
5. Special **cardboard box** for storing and packing

– The number of student sets should correspond to the number of students in a class. The student sets comprise:

1. Set of selected **prepared microscope slides in plastic box** (the same as the teacher slides)
2. **Textbook** with detailed description of all slides
3. Special cardboard box for storing and packing

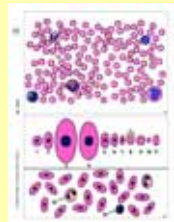


SME-01 MULTIMEDIA TEACHER PACKAGE Teaching Series for Elementary Science

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Letter „e“ - 2. Leg of house fly w.m. - 3. Wing scales of butterfly - 4. Human blood smear - 5. Large plant cells in the marrow of elderberry t.s. - 6. Colored threads w.m.



SSE-01 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

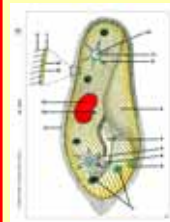


SME-02 MULTIMEDIA TEACHER PACKAGE Protozoa

Basic Package of 8 items

Comprising: 8 Microscope Slides in Plastic Box, 4 OHP Color Transparencies, 8 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Amoeba proteus, showing nucleus and pseudopodia - 2. Paramecium, a ciliate found in hay infusions - 3. Euglena, a common green flagellate - 4. Ceratium, dinoflagellates - 5. Vorticella, a stalked ciliate. - 6. Radiolaria, different forms - 7. Monocystis, sporozoa in earthworm seminal vesicle - 8. Trypanosoma, blood flagellate causing sleeping sickness, blood smear



SSE-02 MULTIMEDIA STUDENT SET

Comprising: 8 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

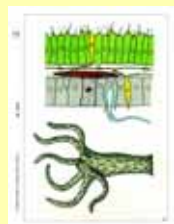


SME-03 MULTIMEDIA TEACHER PACKAGE Invertebrates

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 4 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Marine sponge (Grantia), t.s. - 2. Hydra, fresh-water polyp, t.s. of body - 3. Earthworm (Lumbricus), t.s. showing intestine, body wall, muscles - 4. Water flea (Daphnia), small fresh water crustaceans w.m. - 5. Araneus, spider, leg with comb w.m. - 6. Starfish (Asterias), arm with tube feet, t.s



SSE-03 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

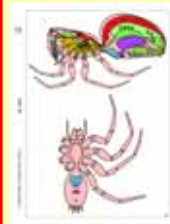


SME-04 MULTIMEDIA TEACHER PACKAGE Invertebrates

Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Hydra, fresh-water polyp, w.m. - 2. Commercial sponge (Euspongia), skeleton of horny fibres - 3. Laomedea, w.m. of colony, vegetative and reproductive polyps - 4. Sea Anemone (Actinia), t.s. of the body - 5. Planaria, t.s. for general structure - 6. Tapeworm (Taenia), proglottid t.s., intestinal parasite - 7. Cyclops sp., copepod, w.m. - 8. Crayfish (Astacus), intestine, t.s. - 9. Dermanyssus gallinae, chicken mite, w.m. - 10. Clam (Mya arenaria), gills, t.s. - 11. Echinus, young sea urchin, t.s. - 12. Amphioxus, Branchiostoma, typical t.s. region of gills and intestine



SSE-04 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

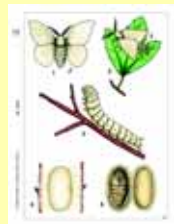


SME-05 MULTIMEDIA TEACHER PACKAGE Insects

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Musca domestica, housefly, leaking-sucking mouth parts w.m - 2. Apis mellifica, honey bee, anterior and posterior wings w.m. - 3. Musca domestica, house fly, leg with pulvilli w.m. - 4. Pieris, butterfly, portion of wings with scales w.m. - 5. Trachea from insect w.m. - 6. Spiracle from insect w.m.



SSE-05 MULTIMEDIA STUDENT SET

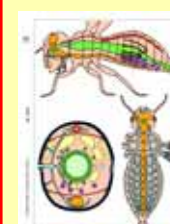
Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-06 MULTIMEDIA TEACHER PACKAGE Insects, Supplementary Package of 12 items

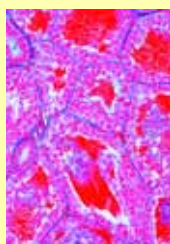
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Culex pipiens, mosquito, piercing sucking mouth parts w.m. - 2. Apis mellifica, posterior leg with pollen basket w.m. - 3. Drosophila, fruit fly, w.m. of adult - 4. Culex pipiens, mosquito, w.m. of larva - 5. Apis mellifica, honey bee, mouth parts of worker t.s. - 6. Pieris, butterfly, clubbed antenna w.m. - 7. Aphidae, plant lice adults and larvae w.m. - 8. Pieris, butterfly, walking leg w.m. - 9. Apis mellifica, honey bee, sting and poison sac w.m. - 10. Musca domestica, house fly, wing w.m. - 11. Drosophila, fruit fly, sagittal l.s. for general insect anatomy - 12. Apis mellifica, head with compound eyes and brain t.s.



SSE-06 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

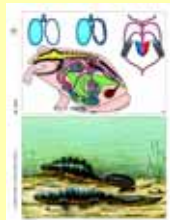


**SME-07 MULTIMEDIA TEACHER PACKAGE
Frog Histology (Rana)**

Basic Package of 12 items

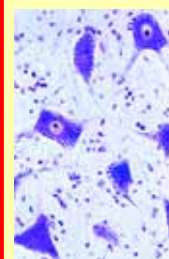
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box.

1. Frog, simple sac-like lung t.s. - 2. Frog, blood smear, shows nucleated red corpuscles - 3. Frog, stomach t.s., glandular epithelium - 4. Frog, small intestine t.s., folds - 5. Frog, large intestine (colon) t.s., goblet cells - 6. Frog, liver t.s., showing liver parenchyma cells - 7. Frog, ovary t.s. shows follicle development, yolk - 8. Frog, testis t.s. showing spermatogenesis - 9. Frog, heart l.s. of the entire organ - 10. Frog, tongue t.s., papillae, glands, muscles - 11. Frog, skin t.s., skin glands, epidermis, pigment cells - 12. Frog, brain t.s. showing nerve cells.



SSE-07 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



**SME-08 MULTIMEDIA TEACHER PACKAGE
The Animal Cell (Cytology)**

Basic Package of 6 items

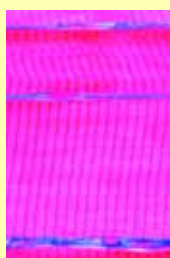
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box.

1. Simple animal cells in t.s. of salamander liver - 2. Squamous epithelial cells from cheek - 3. Nerve cells and fibers - 4. Bone cells, t.s. of compact bone - 5. Striated muscle cells, l.s. of skeletal muscle - 6. Blood cells, smear of human blood with red and white corpuscles



SSE-08 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



**SME-09 MULTIMEDIA TEACHER PACKAGE
Human and animal Histology**

Basic Package of 6 items

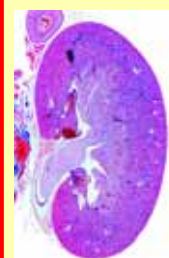
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box.

1. Squamous epithelium, isolated cells - 2. Hyaline cartilage of calf, t.s - 3. Compact bone of cow, t.s. - 4. Striated muscles of cat, l.s - 5. Smooth muscles of cat, t.s. and l.s. - 6. Blood, human, Giemsa or Wright stained smear



SSE-09 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



**SME-10 MULTIMEDIA TEACHER PACKAGE
Human and animal Histology**

Supplementary Package I of 12 items

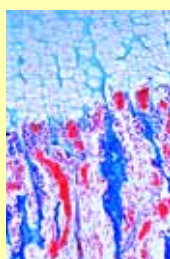
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box.

1. Columnar epithelium, human gall bladder, t.s - 2. Elastic cartilage, ear, t.s. Elastic tissue stain - 3. Skin, human, from palm, t.s. showing sweat glands - 4. Lung, human t.s. showing alveoli - 5. Heart muscle, t.s. and l.s., striations, intercalated discs - 6. Stomach of cat, fundic region, t.s. - 7. Kidney, cat, t.s. showing cortex and medulla - 8. Testis, rabbit, t.s. showing spermatogenesis - 9. Ovary, rabbit, t.s. follicle development - 10. Cerebrum, human, cortex, t.s. - 11. Spinal cord, cat, t.s. for general structure - 12. Tongue, rabbit, t.s., papillae with taste buds



SSE-10 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

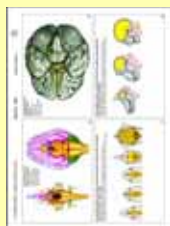


**SME-11 MULTIMEDIA TEACHER PACKAGE
Human and animal Histology**

Supplementary Package II of 12 items

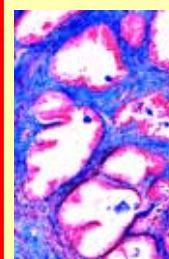
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box.

1. Ciliated epithelium, trachea, t.s. - 2. Adipose tissue, t.s. - 3. Bone development (intracartilaginous), l.s. of foetal finger - 4. White fibrous tissue of cow, l.s. of tendon - 5. Artery, human, t.s., elastica stained - 6. Vein, human, t.s., elastica stained - 7. Small intestine of cat, t.s. stained for goblet cells - 8. Pancreas, human, t.s. with islets of Langerhans - 9. Liver of pig, t.s. - 10. Cerebellum, human, t.s. - 11. Thyroid gland of cow, t.s - 12. Mammary gland of cow, t.s. active stage



SSE-11 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



**SME-12 MULTIMEDIA TEACHER PACKAGE
Human diseases (Pathology)**

Basic Package of 6 items

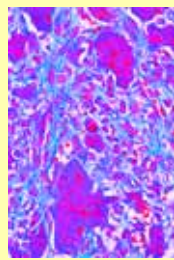
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box.

1. Tuberculosis of the lung, t.s. with bacterial foci - 2. Anthracosis of lung (smokers' lung) - 3. Struma of thyroid gland (Goiter) - 4. Acute hemorrhagic nephritis (Kidney) - 5. Cirrhosis of liver, t.s. (abuse of alcohol) - 6. Eberthella typhi (typhoid fever), smear



SSE-12 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

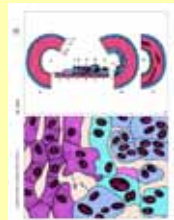


SME-13 MULTIMEDIA TEACHER PACKAGE Human diseases (Pathology)

Supplementary Package of 12 items

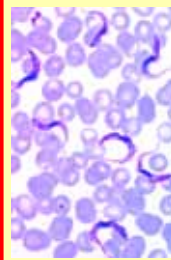
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Miliary tuberculosis of liver - 2. Influenzal pneumonia - 3. Spindle cell sarcoma - 4. Carcinoma of liver (primary) - 5. Hypertrophy of prostate - 6. Adiposis of heart - 7. Icterus hepatis - 8. Myoma of uterus - 9. Carcinoma of uterus - 10. Malaria parasites in blood (Plasmodium), smear - 11. Sleeping disease of humans, blood smear with flagellates (Trypanosoma) - 12. Pus bacteria, smear showing cocci in irregular balls



SSE-13 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-14 MULTIMEDIA TEACHER PACKAGE Parasites of man and animals

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Trypanosoma, blood flagellate causing sleeping sickness, blood smear - 2. Plasmodium falciparum, causing malaria tropica, human blood smear - 3. Taenia, tapeworm, proglottids in different stages t.s - 4. Ascaris lumbricoides, roundworm of human, adult female t.s. in region of gonads. - 5. Trichinella spiralis, t.s. of infected muscle with larvae - 6. Fasciola hepatica, beef liver fluke, t.s. of the body



SSE-14 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-15 MULTIMEDIA TEACHER PACKAGE Parasites of man and animals

Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Entamoeba histolytica, smear or section - 2. Eimeria stiedae, coccidiosis in rabbit liver, t.s. - 3. Monocystis, from earthworm seminal vesicle - 4. Fasciola hepatica, beef liver fluke, w.m. - 5. Taenia pisiformis, tapeworm, mature proglottids w.m. - 6. Enterobius vermicularis (Oxyuris), pin worm, w.m. - 7. Echinococcus granulosus, dog tapeworm, cyst wall and scolices sec. - 8. Dermatomyssus, chicken mite w.m. - 9. Anopheles, malaria mosquito, mouth parts of female w.m. - 10. Culex pipiens, common mosquito, mouth parts of female w.m. - 11. Pediculus humanus, human louse, w.m. - 12. Ctenocephalus canis, dog flea, adult w.m.



SSE-15 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

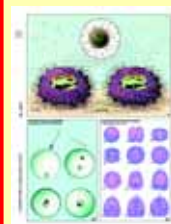


SME-16 MULTIMEDIA TEACHER PACKAGE Reproduction of animals

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Mitotic (division) stages in red bone marrow of mammal t.s. - 2. Meiotic (maturation) stages in testis of mouse t.s. - 3. Sea-urchin development, first cleavage stages of egg cells, w.m. - 4. Growing egg and yolk cells in ovary of bird, t.s. - 5. Ovary of rabbit or other mammal showing oogenesis, t.s. - 6. Sperm smear of bull showing w.m. of spermatozoa



SSE-16 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-17 MULTIMEDIA TEACHER PACKAGE Embryology and development of animals

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Frog, early tail bud stage, t.s. with neural tube, notochord - 2. Frog, young tadpole, t.s. through head - 3. Chicken, 36 hour, t.s. with neural tube, differentiation of mesoderm - 4. Chicken, 48 hour, t.s. with differentiation of mesoderm and ectoderm - 5. Chicken, 3 day, t.s. of head with primordium of brain, eyes and heart - 6. Mouse embryo, t.s. of head, development of hairs, brain, etc.



SSE-17 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-18 MULTIMEDIA TEACHER PACKAGE Embryology and development of animals

Supplementary Package of 12 items

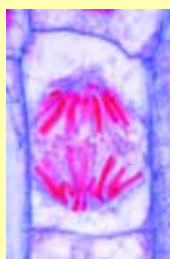
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Vinegar eels (Anguillula), various stages w.m. - 2. Ascaris megalocephala, first and second maturation divisions in oocytes - 3. Ascaris, oocytes with male and female pronuclei - 4. Mosquito (Culex), larva of insect, w.m. - 5. Frog, hatching stage, t.s. region of midbody - 6. Frog, young tadpole, t.s. thorax - 7. Frog, young tadpole, t.s. of abdomen - 8. Chicken, 3 day, t.s. through body showing amnion and serosa. - 9. Chicken, 4-5 day, t.s. through region of heart shows heart, lungs, vertebrae, spinal cord - 10. Chicken, feather development, sec. of wings - 11. Mouse embryo, t.s. of body - 12. Pig embryo, 11-12 mm, typical t.s. region of abdomen



SSE-18 MULTIMEDIA STUDENT SET

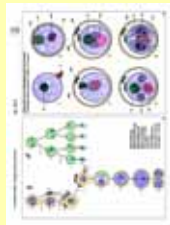
Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-19 MULTIMEDIA TEACHER PACKAGE
Genetic slides
Basic Package of 6 items

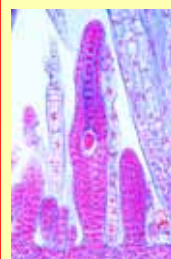
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Allium cepa, onion, root tips, I.s. showing all stages of mitosis
2. Chromosomes, human, of culture of peripheral blood, smear preparation
3. Sea urchin, developing of eggs, w.m. of most stages up to pluteus in the same slide
4. Ascaris megalocephala, male and female pronuclei, sec.
5. Testis of rabbit, t.s. showing spermatogenesis in all stages
6. Spirogyra, scalariform conjugation showing zygotes following conjugation



SSE-19 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-20 MULTIMEDIA TEACHER PACKAGE
Genetic slides
Supplementary Package of 12 items

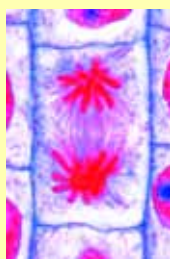
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Allium, root tips, t.s. showing polar view of mitosis, iron-hematoxyline
2. Ovary of rabbit, I.s. follicles in various stages of development
3. Lilium, microspore mother cells, prophase stages t.s.
4. Paramecium, from mass culture showing stages of binary division
5. Rhizopus or Mucor, mold, formation of zygospores w.m.
6. Mniium, moss, archegonium, I.s.
7. Mniium, moss, antheridium, I.s.
8. Pinus, young female cone at time of pollination, I.s.
9. Pinus, male cone with pollen I.s.
10. Lilium, stigma, I.s. showing penetrating pollen grains
11. Drosophila genetics, adult wild type, w.m.
12. Drosophila genetics, "barr eye" mutant, w.m.



SSE-20 MULTIMEDIA STUDENT SET

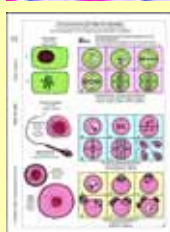
Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-21 MULTIMEDIA TEACHER PACKAGE
Mitosis and Meiosis (Cell division)
Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Allium, root tips, I.s. showing lateral view of all stages of mitosis, iron-hematoxyline
2. Whitefish mitosis, I.s. of embryo showing animal mitosis
3. Testis of mouse, t.s. showing spermatogenesis in all stages
4. Giant chromosomes from salivary gland of Chironomus, squash preparation special stained for chromomeres
5. Lilium, microspore mother cells, prophase of first division showing meiosis
6. Lilium, microspore mother cells, meta- or anaphase of first division, showing mitosis



SSE-21 MULTIMEDIA STUDENT SET

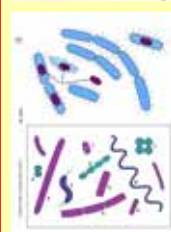
Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-22 MULTIMEDIA TEACHER PACKAGE
Bacteria
Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Bacteria from mouth, smear with Gram positive and negative rods
2. Typical bacteria: three smears on one slide, cocci, bacteria and spirilli are shown, carefully stained
3. Staphylococcus aureus, pus organism
4. Bacillus subtilis, hay bacillus, smear with bacilli and spores
5. Escherichia coli, colon bacteria
6. Spirillum volutans, large species from putrid water



SSE-22 MULTIMEDIA STUDENT SET

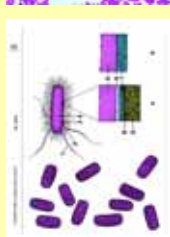
Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-23 MULTIMEDIA TEACHER PACKAGE
Bacteria
Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Streptococcus pyogenes, pus organism
2. Sarcina lutea, chromogenic rods occurring in packets
3. Streptococcus lactis, milk souring organism, short chains
4. Mycobacterium tuberculosis, causing tuberculosis
5. Corynebacterium diphtheriae, causing diphtheria
6. Rhizobium radicicola, nitrogen fixing bacteria in root nodules
7. Proteus vulgaris, putrefaction
8. Eberthella typhi, causing typhoid fever
9. Clostridium botulinum (botulism), causing food poisoning, smear
10. Acetobacter aceti, manufacture of vinegar, smear
11. Salmonella enteritidis, causes meat poisoning, smear
12. Rhodospirillum rubrum, chromogenic spirilli



SSE-23 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-24 MULTIMEDIA TEACHER PACKAGE
Algae
Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Nostoc, blue-green alga with heterocysts
2. Diatoms, fresh water, recent, mixed species
3. Spirogyra, vegetative filaments with spiral chloroplasts, w.m.
4. Cladophora sp., branching filaments with multinucleate cells
5. Chlamydomonas, biflagellate cells, w.m.
6. Desmids, strewn slide showing several selected forms



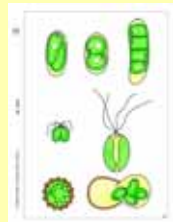
SSE-24 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

**SME-25 MULTIMEDIA TEACHER PACKAGE****Algae** - Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Chroococcus, a single-cell alga, w.m - 2. Oscillatoria, a blue-green filamentous alga w.m. - 3. Microcystis, irregular colonies w.m. - 4. Draparnaldia, main filaments and clusters of branches w.m. - 5. Hydrodictyon, water net, w.m. - 6. Oedogonium, a filamentous green alga with vegetative and sexual stages - 7. Volvox, spherical colonies with daughter colonies and sexual stages w.m. - 8. Dinobryon, a golden alga forming colonies w.m. - 9. Pleurococcus (Protococcus), small colonies growing on bark, w.m. - 10. Laminaria saccharina, thallus with sporangia, c.t. - 11. Fucus vesiculosus, seaweed, male conceptacle with antheridia, t.s. - 12. Fucus vesiculosus, female conceptacle with oogonia t.s.

**SSE-25 MULTIMEDIA STUDENT SET**

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

**SME-26 MULTIMEDIA TEACHER PACKAGE****Cryptogams** - Basic Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Oscillatoria, blue green alga - 2. Spirogyra sp., vegetative filaments w.m. - 3. Mucor, black mold, mycelium and sporangia - 4. Peziza, apothecium with asci t.s. - 5. Saccharomyces, yeast, budding cells - 6. Coprinus, mushroom, t.s. showing typical basidia and spores - 7. Moss stem with leaves w.m. - 8. Marchantia, liverwort, archegonia l.s. - 9. Marchantia, liverwort, antheridia l.s. - 10. Equisetum, horsetail, strobilus with spores l.s. - 11. Pteridium, bracken fern, t.s. of rhizome - 12. Aspidium (Dryopteris), fern, leaflet with sporangia and spores t.s.

**SSE-26 MULTIMEDIA STUDENT SET**

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

**SME-27 MULTIMEDIA TEACHER PACKAGE****Cryptogams** - Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Nostoc, blue green alga with heterocysts - 2. Diatoms, mixed species - 3. Albugo candida, white rust of crucifers, t.s. - 4. Penicillium, blue mold, mycelium and conidiophores - 5. Puccinia graminis, wheat rust, uredinia on wheat t.s. - 6. Psalliota, gill fungus, pileus with lamellae t.s. - 7. Claviceps purpurea, ergot, stroma with perithecia l.s. - 8. Physcia, sec. through thallus of a typical lichen showing the fungus and the embedded algae - 9. Polytrichum, moss, capsule with spores t.s. - 10. Equisetum, horse tail, spores with elaters w.m. - 11. Lycopodium, clubmoss, sporophyll with spores l.s. - 12. Fern prothallium w.m.

**SSE-27 MULTIMEDIA STUDENT SET**

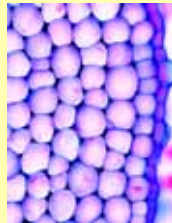
Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

**SME-28 MULTIMEDIA TEACHER PACKAGE****The Plant Cell (Cytology)**

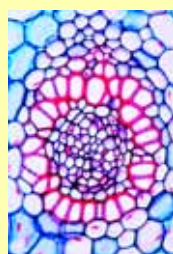
Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Epidermis of Allium cepa (onion), w.m. showing simple plant cells with cell walls, nuclei and cytoplasm - 2. Fruit of Pyrus (pear) t.s. showing stone cells (sclerenchyma cells) - 3. Tuber of Solanum (potato) t.s. shows cork and starch grains - 4. Cucurbita pepo (pumpkin) l.s. of stem showing vascular bundles with sieve tubes, spiral and annular vessels, sclerenchyma fibres - 5. Anthers of Lilium (lily), t.s. showing pollen sacs and pollen grains - 6. Ovary of Lilium (lily), t.s. showing arrangement of ovules and embryosac

**SSE-28 MULTIMEDIA STUDENT SET**

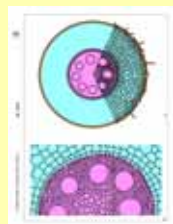
Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

**SME-29 MULTIMEDIA TEACHER PACKAGE****Typical Roots of Phanerogams**

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Zea mays, corn, typical monocot root t.s. - 2. Ranunculus, buttercup, typical dicot root t.s. - 3. Root tip and root hairs, t.s. to show epidermal origin of root hairs - 4. Smilax, carrion flower, t.s. of root shows thickened endodermis - 5. Elodea, Canadian waterweed, t.s. of an aquatic root - 6. Lupinus, root nodules with nitrogen fixing bacteria (Rhizobium radicola) t.s.

**SSE-29 MULTIMEDIA STUDENT SET**

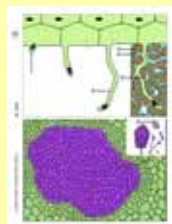
Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

**SME-30 MULTIMEDIA TEACHER PACKAGE****Typical Roots of Phanerogams**

Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Herbaceous and woody roots, two t.s. on one slide - 2. Young (primary) and older (secondary) roots, two t.s. on one slide - 3. Salix, willow, l.s. of root showing origin of lateral roots - 4. Iris, typical monocot root t.s. - 5. Medicago, alfalfa, root t.s. showing secondary growth - 6. Tilia, lime, older woody root t.s. - 7. Monstera, aerial root t.s. - 8. Taraxacum, dandelion, taproot with lactiferous vessels t.s. - 9. Fagus, beech, root with ectotrophic mycorrhiza, t.s. - 10. Neottia nidus avis, orchid, root with endotrophic mycorrhiza, l.s. - 11. Cuscuta, dodder, t.s. through stem of host showing the haustoria of the parasite - 12. Pinus, older woody root t.s.

**SSE-30 MULTIMEDIA STUDENT SET**

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

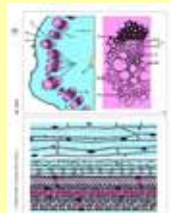


**SME-31 MULTIMEDIA TEACHER PACKAGE
Typical Stems of Phanerogams**

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Zea mays, typical monocot stem with scattered bundles, t.s., a standard slide for general study - 2. Helianthus, sunflower, typical dicot herbaceous stem t.s. showing open vascular bundles - 3. Cucurbita, pumpkin, l.s. of stem with sieve tubes and vascular bundles - 4. Triticum, wheat, t.s. through the stem of a gramineous plant - 5. Elodea, waterweed, t.s. of aquatic stem showing primitive bundle - 6. Convolvularia, lily of the valley, t.s. of rhizome with concentric vascular bundles



SSE-31 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

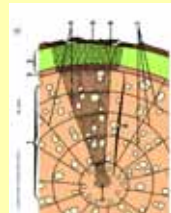


**SME-32 MULTIMEDIA TEACHER PACKAGE
Typical Stems of Phanerogams**

Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Aristolochia, one year stem t.s. for general study - 2. Aristolochia, older stem t.s. - 3. Fagus, beech, three sections of wood: t.s., r.l.s., t.l.s. - 4. Tilia, lime, older woody stem with annual rings, t.s. - 5. Nymphaea, water lily, aquatic stem with idioblasts t.s. - 6. Potamogeton, pondweed, stem with aerial chambers t.s. - 7. Opuntia, cactus, succulent stem t.s. - 8. Ranunculus, buttercup, t.s. stem with open vascular bundles - 9. Coleus, t.s. of a square stem showing collenchyma clearly - 10. Hedera helix, ivy, stem with crystals t.s. - 11. Clematis, young hexagonal stem t.s., collenchyma - 12. Solanum tuberosum, potato, t.s. of tuber with starch grains



SSE-32 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

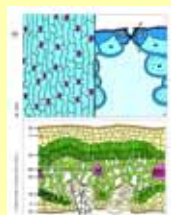


**SME-33 MULTIMEDIA TEACHER PACKAGE
Typical Leaves of Phanerogams**

Basic Package of 6 items

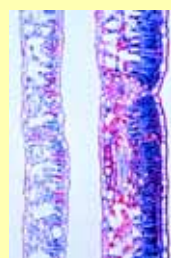
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Zea mays, corn, monocot gramineous leaf t.s. - 2. Syringa, lilac, t.s. of a typical mesophytic dicot leaf for general study - 3. Tulipa, tulip, leaf epidermis w.m., showing stomata and guard cells - 4. Elodea, t.s. of leaf showing the simple structure of an aquatic leaf - 5. Nerium, oleander, leaf with sunken stomata t.s., showing the typical structures of a xerophytic leaf - 6. Pinus, leaves (needles), t.s. for general study of gymnosperm leaves



SSE-33 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



**SME-34 MULTIMEDIA TEACHER PACKAGE
Typical Leaves of Phanerogams**

Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Iris, typical isobilateral leaf t.s. - 2. Poa annua, meadow grass, leaf t.s. - 3. Ligustrum, privet, t.s. of dicot leaf - 4. Helleborus, t.s. of a typical mesophytic dicot leaf for general study - 5. Ficus elastica, India rubber plant, leaf with cystoliths t.s. - 6. Nymphaea, water lily, floating leaf of an aquatic plant with air chambers t.s. - 7. Potamogeton, pondweed, leaf t.s. - 8. Calluna, ling, revolute leaves t.s. - 9. Verbascum, mullein, branched leaf hairs w.m. - 10. Dionaea, Venus flytrap, t.s. of leaf with digestive glands - 11. Drosera, sundew, leaf with glandular hairs, t.s. - 12. Fagus, beech, leaf bud t.s. showing leaf development



SSE-34 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



**SME-35 MULTIMEDIA TEACHER PACKAGE
Flowers and Fruits**

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Liliium candidum, lily, t.s. of flower bud showing floral diagram of a monocot - 2. Lycopersicum, tomato, t.s. of flower bud shows floral diagram of a dicot - 3. Liliium, anther t.s. showing pollen chambers and pollen grains - 4. Liliium, ovary t.s., showing arrangement of ovules - 5. Capsella bursa pastoris, shepherd's purse, l.s. of ovule with embryos - 6. Triticum, wheat, grain (seed), t.s. showing embryo and endosperm



SSE-35 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

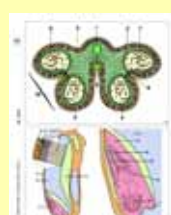


**SME-36 MULTIMEDIA TEACHER PACKAGE
Flowers and Fruits**

Supplementary Package of 12 items

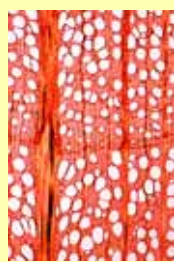
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Liliium, l.s. of stigma with pollen and pollen tubes - 2. Monotropa, Indian pipe, ovary t.s. with developing embryosacs - 3. Papaver, poppy, t.s. of flower shows parietal placentation - 4. Solanum tuberosum, potato, t.s. flower bud for floral diagram - 5. Taraxacum, dandelion, l.s. of composite flower - 6. Cocos nucifera, coconut, endosperm t.s. - 7. Citrus, lemon, young fruit t.s. - 8. Lycopersicum, tomato, young fruit t.s. - 9. Pyrus malus, apple, young pome t.s., a fleshy, many seeded fruit - 10. Mixed pollen types, many different species - 11. Pinus, ovule l.s. showing archegonia, for general study - 12. Pinus, male cone with pollen l.s.



SSE-36 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

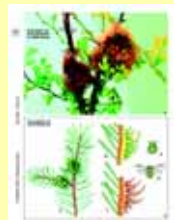


SME-37 MULTIMEDIA TEACHER PACKAGE Varieties of wood

Basic Package of 6 items

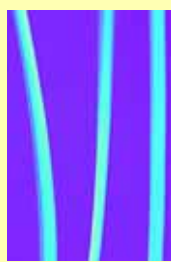
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Maple. *Acer platanoides*, three sections of wood -
2. Beech. *Fagus silvatica*, three sections of wood -
3. Pine. *Pinus silvestris*, three sections of wood -
4. Spruce. *Picea excelsa*, three sections of wood -
5. Poplar. *Populus alba*, three sections of wood -
6. Lime. *Tilia platyphyllo*, three sections of wood



SSE-37 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-38 MULTIMEDIA TEACHER PACKAGE Textile fibres, hairs and furs

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Merino wool -
2. Cocoon silk, raw -
3. Linen (flax) -
4. American cotton -
5. Cellulose fibers -
6. Nylon fabric



SSE-38 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

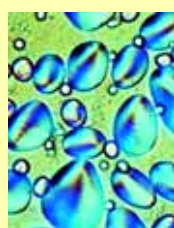


SME-39 MULTIMEDIA TEACHER PACKAGE Foodstuff and its adulteration

Basic Package of 6 items

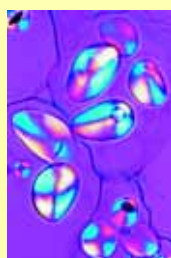
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Mold in spoiled foodstuffs -
2. Sour milk, stained for bacteria -
3. Wheat flour adulterated with chalk -
4. Corn flour spoiled with spores of corn smut (*Ustilago*) -
5. Rye flour spoiled with moths -
6. Flour spoiled with mites (*Tyroglyphus farinae*)



SSE-39 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

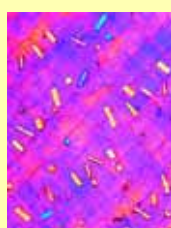


SME-40 MULTIMEDIA TEACHER PACKAGE Foodstuffs and spices under the microscope

Basic Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Rye flour -
2. Potato starch -
3. Soya meal -
4. Wheat flour -
5. Rice starch -
6. Coffee bean t.s. -
7. Black pepper, ground -
8. Paprika, ground -
9. Nutmeg t.s. -
10. Cocoa powder -
11. Tobacco, leaves t.s. -
12. Hazelnut, t.s. stained for fat



SSE-40 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

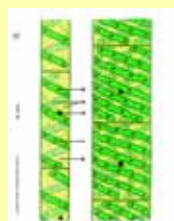


SME-41 MULTIMEDIA TEACHER PACKAGE The wonderful world in a drop of water

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Euglena, green flagellate with eyespot -
2. Paramecium, nuclei stained -
3. Daphnia and Cyclops, small crustaceans -
4. Spirogyra, green alga with spiral chloroplasts -
5. Spongilla, fresh water sponge, isolated spicules -
6. Diatomeae, diatoms, mixed species



SSE-41 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

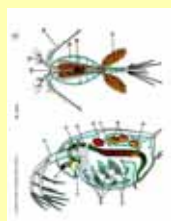


SME-42 MULTIMEDIA TEACHER PACKAGE The wonderful world in a drop of water

Supplementary Package of 12 items

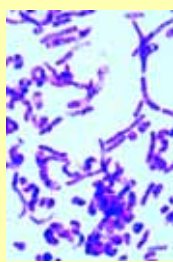
Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Ceratium hirundinella, dinoflagellates -
2. Vorticella, a stalked ciliate -
3. Putrefaction causing bacteria from hay infusions -
4. Hydra, fresh water polyp, t.s. of the body -
5. Cladophora, green alga, branched filaments -
6. Eudorina, small colonies within gelatinous sheaths -
7. Microcystis, irregular colonies -
8. Rotatoria, rotifers, mixed species -
9. Planaria, fresh water flat worm, t.s. of body -
10. Plumatella, moss animal, section of colony -
11. Tubifex, a fresh water oligochaete -
12. Mixed plankton, strewn slide



SSE-42 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

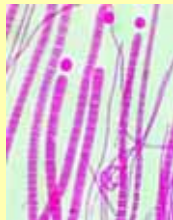


SME-43 MULTIMEDIA TEACHER PACKAGE
Identifying polluted water under the microscope

Basic Package of 6 items

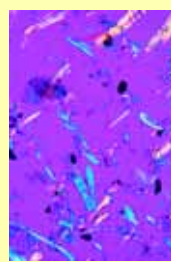
Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Intestinal bacteria (Escherichia coli) from putrid water
2. Putrefactive bacteria (Spirillum) from sludge pool in oxygen
3. Sludge bacteria (Methanobacterium) causing sewer gas
4. Wasserbluthe (Microcystis), blue-green alga "blooming" in stagnant water
5. Ciliates, different species from nutrient-rich water
6. Water mold (Saprolegnia), harmful to plants and animals



SSE-43 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-44 MULTIMEDIA TEACHER PACKAGE
Air Pollution and Allergens

Basic Package of 6 items

Comprising: 6 Microscope Slides in Plastic Box, 3 OHP Color Transparencies, 6 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Pollen grains of different kinds of grass
2. Pollen grains of different kinds of conifers
3. Mixed house dust (causing allergens)
4. Asbestos powder (cancerogenous)
5. Dust mite from a living room
6. Spores of different fungi



SSE-44 MULTIMEDIA STUDENT SET

Comprising: 6 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

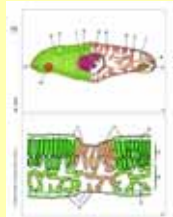


SME-45 MULTIMEDIA TEACHER PACKAGE
Animals and plants damaged by environmental influences

Basic Package of 8 items

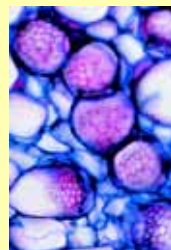
Comprising: 8 Microscope Slides in Plastic Box, 4 OHP Color Transparencies, 8 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Skin of fish injured by chemicals, t.s.
2. Skin ulcer of an amphibian, t.s.
3. Human lung injured with dust particles, t.s.
4. Gall nut on oak caused by insects, t.s.
5. Beech (Fagus), t.s. of leaves with destroyed epidermis and chloroplasts
6. Damaged lichen, caused by air pollution
7. Wood with anomalous narrow annual rings caused by drought, t.s.
8. Wood destroyed by fungus



SSE-45 MULTIMEDIA STUDENT SET

Comprising: 8 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box

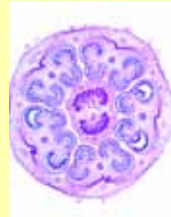


SME-50 MULTIMEDIA TEACHER PACKAGE
Anatomy of Phanerogams

Basic Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Zea mays, corn, monocot root t.s.
2. Ranunculus, buttercup, dicot root t.s.
3. Root tip and root hairs, t.s. epidermal origin of root hairs
4. Zea mays, monocot stem with scattered bundles, t.s.
5. Helianthus, sunflower, dicot herbaceous stem t.s.
6. Zea mays, corn, monocot gramineous leaf t.s.
7. Syringa, lilac, t.s. of a typical mesophytic dicot leaf
8. Tulipa, tulip, leaf epidermis w.m., stomata and guard cells
9. Lilium, lily, t.s. of flower bud showing floral diagram
10. Lilium, anther t.s. showing pollen chambers and pollen grains
11. Lilium, ovary t.s., showing arrangement of ovules
12. Triticum, wheat, seed t.s. embryo and endosperm



SSE-50 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



SME-51 MULTIMEDIA TEACHER PACKAGE
Anatomy of Phanerogams

Supplementary Package of 12 items

Comprising: 12 Microscope Slides in Plastic Box, 6 OHP Color Transparencies, 12 Sketch- and Worksheets, Brochure with explanatory text, Special cardboard box

1. Herbaceous and woody roots, two t.s. on one slide
2. Lupinus, root nodules with nitrogen fixing bacteria t.s.
3. Fagus, beech, root with ectotrophic mycorrhiza, t.s.
4. Aristolochia, older stem t.s.
5. Cucurbita, pumpkin, l.s. of stem with sieve tubes and vascular bundles
6. Solanum tuberosum, potato, t.s. of tuber with starch grains
7. Nerium, oleander, leaf with sunken stomata t.s. xerophytic leaf
8. Pinus, leaves (needles), t.s.
9. Lycopersicum, tomato, t.s. of flower bud shows floral diagram
10. Mixed pollen types, many different species
11. Pinus, ovule l.s. showing archegonia
12. Pinus, male cone with pollen l.s.



SSE-51 MULTIMEDIA STUDENT SET

Comprising: 12 Microscope Slides in Plastic Box, Brochure with explanatory text, Cardboard box



