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666 601\_STM\_Chemistry\_Biology\_en\_2010\_06

PHYSICS

CHEMISTRY  
BIOLOGY

ENGINEERING

# Science Teaching Modules Chemistry/Biology



# Chemistry

## Topics:

### Inorganic Chemistry

Basic methods/separation processes  
Water  
Air, gases and their properties  
Acids, bases and salts  
Metals and non-metals

### Organic Chemistry

Preliminary tests  
Hydrocarbons  
Alcohols, aldehydes and ketones  
Carboxylic acids and esters

### Analytical Chemistry

Preliminary tests  
Anion and cation analysis  
Chromatography

### Physical Chemistry

Electrochemical processes  
Particle motion and energy

### Chemical Processes

Inorganic basic chemicals  
Building materials, glass and ceramics  
Metals - ores, fertilizers  
Chemistry of black and white photography

### Chemistry of foodstuffs

Fats, carbohydrates, proteins  
Active and attendant substances  
Stimulants and intoxicants  
Changes in foodstuffs  
Additives, Water  
Foodstuff analysis

### Chemistry of soap and detergents

Production of soap  
Washing and cleaning effects  
Disadvantages of soaps  
Modern tensides  
Washing agents and environment



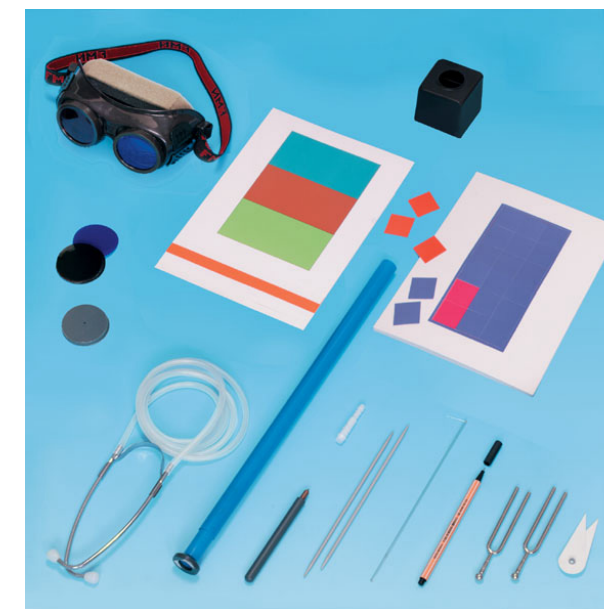
# Biology



STM Supplementary set EC ecology



STM Supplementary set MB microbiology



STM Equipment set SP sensory physiology



STM supplementary set CH chromatography



Example for:  
Stackable cases and space-saving and  
well-organized storage

# Biology

## Topics

- Botany
- Ecology
- Microbiology
- Sensory Physiology
- Chromatography

## Necessary equipment modules

- Stand + Base + Botany
- Stand + Base + Ecology
- Base + Microbiology
- Sensory Physiology
- Chromatography



STM Stand set biology



STM Basic equipment set biology



STM Supplementary equipment set BO botany

# Chemistry

## Topics

- Inorganic Chemistry: Stand + Base + Inorganic/Organic Chemistry
- Organic Chemistry: Stand + Base + Distillation + Inorganic/Organic Chemistry
- Analytical Chemistry: Stand + Base + Chromatography + Analytical Chemistry
- Physical Chemistry: Stand + Base + Physical Chemistry
- Technical Chemistry: Stand + Base + Technical Chemistry
- Chemistry of Foodstuffs: Stand + Base + Distillation + Chromatography + Chemistry of Foodstuffs
- Chemistry of Soaps and Detergents: Stand + Base + Chemistry of Soaps and Detergents

## Necessary equipment modules



STM Chemistry Stand Set



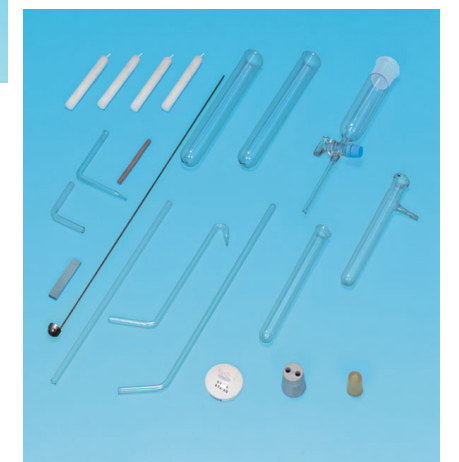
STM Basic Set Chemistry



STM Set Distillation



STM Set Chromatography

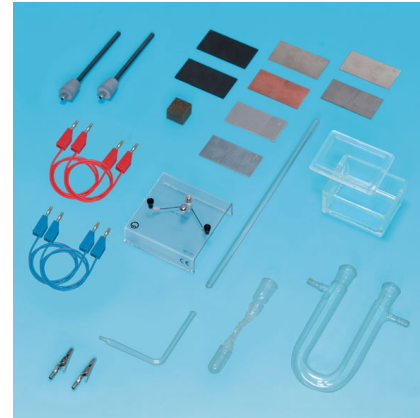


STM Set Inorganic/Organic Chemistry

# Chemistry



STM Set Analytical Chemistry



STM Set Physical Chemistry



STM Set Chemical Processes



STM Set Detergents



STM Set Food Chemistry



**Example for:**  
Stackable cases and space-saving and well-organized storage

# Biology

## Topics:

### Botany

Germination and growth  
Water balance of plants

### Ecology

Physical and chemical factors (abiotic factors)  
Soil factors (edaphic factors)  
Biotic factors  
Synecology, population ecology  
System analysis

### Microbiology

Ecological aspects  
Technological aspects  
Medical and hygienic aspects

### Sensory Physiology

Hearing  
Somatosensory (touch)  
Vision

### Chromatography

Historical retrospect  
Column chromatography  
Paper chromatography  
Thin-layer chromatography

