

Grade 8

Fashion designs and sewing technology

Topics:

- Safety rules
- Sewing workroom
- Textile materials and sewing equipment
- Rules of clothes design
- Stitches
- Clothes conservation
- The knitwear
- Weaving
- Interior decoration

Student:

- Knows history of sewing and fashion design
- Knows sewing equipment
- Can recognise types of common fibres
- Knows modern synthetic fibres
- Describes designer and stylist work
- Can give measurements of his/her body
- Describes structure and operation of a sewing machine
- Describes structure and operation of an iron
- Describes different types of buttons
- Can sew on a button
- Can do a simple hand-stitch
- Knows pictograms on a label
- Knows how to remove dirt from clothes
- Knows decorative techniques

Assessment:

- Quick Tests
- Major Test at the end of the chapter
- Project: "Pot holder"
- Project: "Shopping bag"
- Project: "Toy Animal"
- Essay: "From animal leather to nylon"

Mechanics and motorisation

Topics:

- Technical drawing
- Technological process
- Constructive materials
- Connections between materials
- Axes, shafts and bearings
- Tools
- Measuring equipment
- Famous inventors
- Engines
- Car structure
- Traffic regulations
- Safety on the road

Student:

- Knows different types of projections
- Knows rules of dimensioning
- Draws items in different projections
- Knows stages in technological process
- Uses technical writing
- Describes constructive materials
- Describes different types of joining
- Describes and uses tools
- Describes structure and operation of a driller
- Describes structure and operation of axes, shafts and bearings
- Can make a plan of house miniature
- Builds own house from every day materials
- Uses measuring tools
- Knows famous inventors and their inventions
- Knows bases of ancient engineering
- Knows structure and operation of engine
- Knows how does the car work
- Knows traffic regulations

Assessment:

- Quick Tests
- Major Test at the end of the chapter
- Project: "House made of every day materials"
- Essay: "Alloy of the future"

Grade 9

Electronics

Topics:

- History of electricity
- Voltage
- Electrical circuits
- Resistor, capacitor, diode, LED
- Transistor, coil, electromagnet
- Transformer,
- Soldering iron
- Electrical Engine
- Fuse
- Microphone and speaker
- Radio and TV
- Phone
- House electrical installation

Student:

- Knows history of electricity and famous inventors
- Can calculate voltage and resistance
- Knows units uses in electronics
- Describes electronic sub-assemblies
- Can use soldering iron
- Describes structure and operation of TV, Radio and phone
- Can draw simple electrical circuits and make measurements
- Describes structure and operation of electrical engine
- Describes structure and operation of microphone and speaker
- Is familiar with recycling electrical devices
- Can calculate usage of electricity
- Can read and knows symbols and pictograms from nameplate

Assessment:

- Quick Tests
- Major Test at the end of the chapter
- Project: "LED Christmas Tree"
- Project: "How much electricity ..."
- Essay: "One day without electricity "

Food technology

Topics:

- Safety rules in the kitchen
- Nutritional standards
- Menu and diet making
- Meals preparation
- Healthy food
- Regional culinary traditions
- Obesity and BMI
- Table decoration and etiquette
- Fruits and vegetables

Student:

- Knows safety rules in kitchen
- Can use modern kitchen equipment
- Knows inventions bound up with food technology
- Knows rules of healthy diet
- Knows food pyramid
- Calculates body energy demand
- Calculates calories in food
- Makes menu and recipes
- Knows safety rules and issues in food transportation and preparation
- Describes methods of food preparation
- Knows culinary traditions of few world regions
- Describes modern healthy problems
- Calculates BMI
- Can set the table for meal
- Knows savour-vivre rules
- Describes fruits and vegetables
- Knows vitamins and their influence on our body

Assessment:

- Quick Tests
- Major Test at the end of the chapter
- Project: "Let's eat it!"
- Project: "Bone appetite Your Majesty"
- Essay: "Preservatives? Yes or No?"