Scheme of Work - Progression

Physics-Chemistry

Year 10 / 3e

Period 1	**Ions and stoichiometry** - Formation of ions - Fomula of elements and molecules - Equations - Solubility, miscibility - Air Composition **Movement, Energy and Pressure** - Free fall - Acceleration - Describe the motion of objects in a uniform gravitational field - Kinetic, gravitational potential, chemical and elastic energy - Conservation of energy - Definition of Pressure - Change of pressure beneath the surface of a liquid

Autumn – Mid-Term Holiday

Period 2	**Energy resources** - Electricity generator - Renewability, availability, reliability of sources - Energy transfer - Radiation from the sun - Efficiency - Electromotive force - Potential difference

Winter Holiday

Period 3	**Acids, bases and salt** - Definition of acids and bases - Characteristics properties of acids - Effect of acids - Alkalis - Aqueous solutions - pH - Neutralisation reactions

Winter - Mid-Term Holiday

Period 4	**Energy** - Power in a circuit - Circuit diagrams - LEDs - Series and parallel circuits - Combinasion of several sources and several resistance in a circuit - Currents, resistance, potential difference - Potential divider

Spring Holiday

Period 5	**Movement, Energy and Pressure** - Free fall - Acceleration - Describe the motion of objects in a uniform gravitational field - Kinetic, gravitational potential, chemical and elastic energy - conservation of energy - Definition of Pressure - Change of pressure beneath the surface of a liquid **Universe** - Structure of the solar system - Galaxies, stars - Evolution of universe - Distances in the universe - Elements in the universe **DNB preparation**