Ripon Grammar School

Ripon Grammar School – 13+ Entrance Exam – Science content

Biology
- the 7 characteristics of life
- cells, tissues, organs, systems
- skeletal system
- respiratory system
- circulatory system
- reproduction in plants and animals
- variety of life and classification
- adaptations and variation
- food chains and webs

Chemistry
- particle theory, including changes of state
- acids, alkalis and indicators
- solutions and solubility
- elements, compounds and mixtures
- separating mixtures
- oxidation & combustion

Geology
- weathering and erosion
- rock groups & the rock cycle

Astronomy
- solar system
- day and night
- seasons
- phases of the moon

Physics
- forces
- magnetic fields
- electricity (current, voltage, resistance)
- energy (types and conversions)

Scientific method
- apparatus
- safety
- reading scales
- drawing tables
- drawing graphs
- variables and relationships