



# MAGIS 2023/1

## Syllabus for Grade 9

Designed as an objective and fair method of assessing academic achievement of students through computerized scoring, MAGIS serves as a standardized and transparent admission test for Pak-Turk Maarif International Schools and Colleges.

### English:

- Tenses (conversion and identification of tenses)
- Correct usage of parts of speech in a sentence
- Vocabulary (synonyms, antonyms, one word replacement)
- Punctuation
- Formal and informal letter
- Idioms and identifying the correct meaning of an idiom
- Homophones/homonyms
- Change in voice
- Change in direct-indirect narration
- Unseen comprehensions and MCQs relevant to comprehensions

### Mathematics:

- Sets
- Basic algebra, factorisation of algebraic expressions
- Solving linear simultaneous equations
- DMAS
- Finding out profit or loss percentage using data and word problems
- Ratio and proportion
- Angles and types of angles
- Basic geometry, perimeter, volume, and areas of triangles squares and rectangle
- Surface area of cube, cuboid, sphere and rhombus
- Statistical approach like frequency, means, mode and medium etc.

### Science:

- Characteristics of life
- Cell and cellular organelles
- Photosynthesis
- Respiration
- Basics of reproduction in plants and in animals
- Basics of human organs and systems
- Nutrients and nutrition
- Structure of an atom
- Matter and its types
- Environmental science, global warming and pollution
- Physical vs chemical changes
- Chemical reactions and types of chemical reactions, exothermic and endothermic reactions, balancing of chemical equations
- SI units and interconversion of units
- Force and pressure
- Heat energy (sources and effects)
- Lenses
- Basics of electricity and magnetism

### Social Studies:

- Basics of maps
- General knowledge relevant to history of Pakistan
- Basics of geography relevant to Rivers, topography, climate and natural regions of Pakistan
- Oceans and Seas
- Environmental problems
- Neighbouring regions of Pakistan
- Various seasons, rainfall and causes in Pakistan
- Crops and agriculture practices in Pakistan

### Islamiyat:

- General knowledge relevant to each pillars of Islam and believes of Islam
- Basics of The Holy Quran and Sunnah
- The life of The Holy Prophet ﷺ and lives of Khulfa-e-Raishdeen
- Islam and practices in daily life relevant to Islam

### اُردو:

قواعد: اسم، فعل، حرف اور انکی اقسام، حرفِ نحو، فعل، فاعل، اور مفعول، محاورے اور ان کا جملوں میں استعمال، الفاظ متضاد، تزکیر و تائیس، واحد جمع، درست و غلط فقرات، درست الفاظ کی نشاندہی، الفاظ مترادف، سالبے اور لائقے، اعراب اور تنہیم۔