



TOPPERS HUB
ACADEMY

MIDDLE SCHOOL BOOSTER

Classes 6–8 Foundation

Maths, Science & English Basics

A free study resource by **Toppers Hub Academy**

Founder & Director: **Mrs. Neeru Nanda**

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Maths Basics

- Integers: numbers with sign (... , -2, -1, 0, 1, 2, ...); follow sign rules in operations.
- Fractions and decimals: convert between them; find LCM and HCF to compare and add fractions.
- Ratio and proportion: a:b compares quantities; a:b = c:d means ad = bc.
- Percentage: x% means x per 100; profit/loss and simple interest are common applications.
- Algebra: use variables for unknowns; solve simple linear equations.
- Geometry: types of angles, triangles, quadrilaterals; area and perimeter formulas.

Science Basics

- Matter exists as solids, liquids and gases; it can change state.
- The cell is the basic unit of life; plant cells have a cell wall.
- Photosynthesis: green plants make food using sunlight, CO₂ and water.
- Force can change the speed, direction or shape of an object.
- Light travels in straight lines and reflects off surfaces.
- Keep our environment clean; conserve water, forests and wildlife.

English Basics

- Parts of speech: noun, pronoun, verb, adjective, adverb, preposition, conjunction, interjection.
- Tenses: present, past and future — each with simple, continuous and perfect forms.
- Sentence types: assertive, interrogative, imperative and exclamatory.
- Build vocabulary with synonyms, antonyms and daily reading.

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