



World Class Science Foundations



OVERVIEW

In our Science course, we explore the “Fundamentals” - core content and concepts necessary for a strong foundation in science, which will help prepare your child to take on challenging concepts and problems in high school.

PROGRAM HIGHLIGHTS

Created by

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one of the most loved teachers in India with millions of student fans online (Ex content head and teacher at BYJU'S) in collaboration with former executive director of learning at Stanford university, **Dr. Brian Johnsrud.**



Mastery based

kids move forward only after they have shown evidence of learning



Enquiry based

No more rote memorisation! Kids learn how to actively ask the deeper “Whys”



Study smarter not harder

proven learning techniques like active recall, spaced repetition, interleaved practice instead of “study harder!”



Active learning

Kids build science simulations using coding to develop a deeper understanding



CHAPTERS IN YEAR 1

Motion



- Speed and Velocity
- Why is my speedometer reading different from the average speed?
- How to plot and interpret Position time graphs.

- Inertia
- Newton's first law of motion
- Net force
- Types of forces

Force



Friction & Pressure



- Friction opposes relative motion
- Model to understand friction
- Factors affecting friction between 2 surfaces.
- What is pressure and how to measure it?

- Particle theory
- Atoms and Molecules
- States of matter
- Thermal conductivity

Matter



Metal & Non metals



- Physical properties of metals and non metals
- Chemical properties of metals and non metals

- How do we see things?
- Reflection of light
- Image formation in plane mirrors
- Refraction of light
- Spectrum of white light

Light



Sound



- How is sound created?
- How does sound travel?
- How do we hear sound?
- How do we measure sound? Amplitude, Time period, Frequency.

- Electric charges
- Static electricity
- Conductors vs Insulators
- Electric current and circuits
- Series and parallel circuits

Electric charges & currents



Genes



- Variation
- Inheritance
- Natural selection

- Parts of cells
- Plant vs Animal cells
- Cell, tissues, and organs.

Cell



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