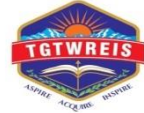




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STEM CLUB



A STEM club is an extracurricular group focused on Science, Technology, Engineering, and Mathematics, offering hands-on learning in areas like robotics, coding, and IoT for students. These clubs foster problem-solving, creativity, and career awareness through interactive projects, workshops, and competitions.

Key Aspects of STEM Clubs:

- **Hands-on Learning:** Focuses on "kinaesthetic learning" (doing rather than just watching), which helps students engage more deeply than traditional classrooms.
- **Skill Development:** Enhances critical thinking, collaboration, and technical skills like coding, programming, and electronics.
- **Activities:** Includes robotics workshops, hackathons, science experiments, math games, and "maker" projects.
- **Benefits:** Boosts student confidence, sparks interest in STEM careers, and provides a safe space for creative experimentation.
- **Structure:** Often runs as a multi-week after-school program, though some are integrated into school curriculum enrichment.

Benefits for Students

- **Skill Development:** Boosts problem-solving performance and encourages "outside-the-box" thinking.
- **Resilience:** Teaches that failure is a stepping stone to success through trial-and-error experimentation.
- **Career Readiness:** Provides early exposure to high-demand fields like biotechnology and data science, often leading to better job opportunities.
- **Engagement:** Increases motivation by connecting classroom theories to real-world applications.





