

Science & Innovation Fair Categories

The Science & Innovation Fair encourages learners to explore real-world challenges, local opportunities, and global innovations through age-appropriate scientific inquiry and creative problem-solving.

SENIOR PHASE

Grades 7 – 9

Focus: Investigation, design thinking, real-world applications

1. Energy & Sustainability

- Renewable energy (solar, wind, bio-energy)
- Energy saving ideas for homes, schools, or mines
- Sustainable living solutions

Local relevance: Solar & mining energy

Global relevance: Clean energy transition

2. Engineering & Design

- Structures, machines, and systems
- Improving tools, transport, or infrastructure
- Problem-solving through design

Examples:

Better road designs | Safer mining equipment | Housing solutions

3. Agriculture, Food & Nutrition

- Smart farming and food security
- Soil health, irrigation, and crops
- Nutrition and healthy food solutions

Local relevance: Farming in dry areas

Global relevance: Feeding a growing population

4. Technology & Digital Innovation

- Coding concepts (basic)
 - Robotics, sensors, or simple automation
 - Technology for education or community support
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Judging Will Consider

- Age-appropriate complexity
- Creativity and originality
- Understanding of the topic
- Real-world relevance
- Presentation and communication

Learners may work individually or in groups of 3 (as per grade guidelines).

Full participation rules and judging criteria will be released closer to the event.