

Science Fair 2026

“How can science help Bahrain achieve the UN Sustainable Development Goals?”

Welcome

Welcome to the Science Fair! This booklet explains what the Fair is about, how to take part, and how to design a strong project that links to Bahrain's sustainability priorities and the UN Sustainable Development Goals (SDGs). The Fair is open to KS3–KS4 students, working individually or in small teams.

Key Information

- Event date: Tuesday, 17 March 2026 (during British Science Week celebrations at school)
- Venue: MPH
- Audience: Whole school community with invited guests and judges
- Theme focus: Real-world solutions connected to Bahrain and the UN SDGs

What is the Science Fair about?

The Fair is a celebration of curiosity, scientific thinking and positive action. Your project should explore a question or problem and show how science can help Bahrain progress toward the SDGs. You may conduct an experiment, build a model or prototype, or research and justify a solution using scientific evidence.

Judging Criteria (overview)

- Scientific thought & understanding
- Design & methodology / fairness of test
- Data quality & analysis
- Impact & relevance to Bahrain sustainability and SDGs
- Communication & presentation
- Safety & ethics

Project Examples (Bahrain context)

- Solar cooker or solar desalination prototype (SDG 7, SDG 6)
- Comparing water filtration media for greywater reuse (SDG 6, SDG 12)
- Optimising indoor cooling using materials/insulation (SDG 11, SDG 13)
- Measuring microplastics in local beach sand (SDG 14)
- Composting and food-waste reduction trials (SDG 12, SDG 13)
- Biodiversity survey of a school garden with habitat recommendations (SDG 15)

Get Started: What must a Science Fair project include?

1. A clear driving question (what do you want to find out?)
2. Background research with sources (brief literature/background notes)
3. A hypothesis or predicted outcome
4. Defined variables: independent, dependent, and controlled variables (if experimental)
5. A fair, repeatable method (or design/engineering process)
6. Risk assessment & safety plan
7. Materials list and feasibility (time/cost/resources)
8. A data collection plan: tables, measurements, trials, observation schedule
9. Analysis: graphs, calculations, statistics where appropriate
10. Conclusion: answer the question; evaluate limitations and next steps
11. Bahrain sustainability link: which SDG(s)? what local need/benefit?
12. References and acknowledgements

Tip: Keep a project logbook from day one. Date your entries and include photos of progress.

Project Proposal Form (to submit before you start)

Project title	
Student name(s)	
Year group & tutor	
Choose your SDG(s)	
Bahrain sustainability issue you are addressing	
Driving question	
Rationale (why this matters for Bahrain)	
Hypothesis / expected outcome	
Method overview (how you will investigate/build/test)	
Key variables (IV, DV, controls) / or success criteria (for engineering)	
Materials & approximate cost	
Risks & how you will reduce them	
Data you will collect & how you will analyse it	

Submission: Return to your science teacher by **8th February 2026**

Parental/Guardian Consent Form

Event: Science Fair 2026

Date: Tuesday, 17 March 2026 | Venue: MPH

Student full name	
Year group & tutor	
Project title	
Emergency contact name & number	
Participation consent (parent/guardian): I consent to my child taking part in the Science Fair	
Parent/guardian name, signature & date	