For Grades 2th – 4th

BADR ISLAMIC SCHOOL

ANNUAL SCIENCE FAIR

2026–2027

Subject: It's Science Fair time again (Jan 6th & 7th)!

Assalamualaikum Parents and Guardians,

We are excited to announce that this year's **Annual Badr School Science Fair** will be held on **January 6 and January 7** (01/06/27-01/07/27)!

This fair is a highlight of our academic year, offering students a hands-on opportunity to explore **Science, Technology, Engineering, and Mathematics (STEM)**. It helps students develop **critical thinking**, **problem-solving skills**, **confidence**, and **curiosity**.

👉 **Participation is mandatory** for all students **(Pre-K through Grade 8)**, and a school grade will be given.

- Projects for **Grades 2 through 8** must be **completed at home** with no regular class time dedicated to them. Project ideas must be **approved by the student's Science teacher**.
- Projects for **Grades Pre-K to 1** will be **completed in the class with their teachers**, and more information about their group project will be provided by their *respective* teachers.

We encourage every student's effort, and prizes will be awarded for the **top projects** in each grade level, recognizing excellence in research and presentation. Plus, projects with the **highest grade** will have the opportunity to be part of **Hudson County Stem Showcase** being held at the LIberty Science Center on March 01, 2027.

We are incredibly excited to see the innovative work our students will produce this year. We look forward to celebrating their hard work and achievements at the Science Fair!

Sincerely,

Badr School Administration

👉**This packet includes:**

Introductory Letter	Required Report Sections	Required Display Board Layout
Parent's Role	Helpful Online Resources	Project Idea Submission Form

Kindly **read it thoroughly!**

☐ Parent's Role

👉 **Parental support is very important** for a successful project. Below are some **suggestions** to guide you in your role regarding your child's science fair project.

- Help select a realistic project and gather needed materials.
- Guide and support your child, but let them do the work themselves.
- Encourage regular progress to avoid last-minute rushing.
- Ensure safety precautions are followed throughout.
- Assist with display board construction and transport to school.

☐ Required Report Sections (2^{nd}– 4^{th}grades)

Section	What belongs there
1. Title Page	Project title, student name, grade/class, teacher, and date.
2. Project Summary	A short, 2–3 sentence overview of your project, what you tested, and what you found out.
3. Question & Purpose	What question are you trying to answer, and why is it interesting?
4. Hypothesis (Guess)	Your smart guess about what will happen: "I think... because..."
5. Materials & Steps	List of supplies you used and simple numbered steps to show how you did your experiment.
6. Results & Data	Drawings, simple picture graphs, charts, or photos showing what happened.
7. What I Learned (Conclusion)	Did your experiment answer your question? Was your guess right or wrong?
8. Sources & Thanks	Books or websites you used, and a thank you to the helpers (like parents or teachers).

Report Format

- Typed; Double-spaced; TImes-New Roman Font; Size 12.

☐ Helpful Online Resources

Project Ideas	Online Research
Science Buddies Science Fair Central KiwiCo Home School Tools Learning Center	scholar.google.com kids.nationalgeographic.com sweetsearch.com infotopia.info britannica.com/science snexplores.org sciencejournalforkids.org

☐ Required Three-Panel Display Board Layout

LEFT PANEL	CENTER PANEL	RIGHT PANEL
2 Project Summary A short, 2–3 sentence overview of your project, what you tested, and what you found out.	**1 Title Page** Project title, grade/class, teacher, and date. Project title: _____ Grade / class: _____ Teacher: _____ Date: _____	**7 What I Learned (Conclusion)** Did your experiment answer your question? Was your guess right or wrong?
3 Question & Purpose What question are you trying to answer, and why is it interesting?	**5 Materials & Steps** List of supplies you used and simple numbered steps to show how you did your experiment.	**8 Sources & Thanks** Books or websites you used, and a thank you to the helpers (like parents or teachers).
4 Hypothesis (Guess) Your smart guess about what will happen: "I think... because..."	**6 Results & Data** Drawings, simple picture graphs, charts, or photos showing what happened.	

How to use this layout

- Put each numbered section in the panel shown above — the numbers match your written report.
- Make your title and Results & Data the biggest things on the board, so they can be read from a few steps away.
- Write in your own words, keep sentences short, and leave some empty space between sections.

👉 SPECIAL NOTE:

★ Students should **NOT** have their names written on the front of their display board. Each student will be given a number to attach to their board.

★ If the student chooses to bring in his/her experiment: **a)** It must be contained in a shoebox or a plastic container of similar size; **b)** It should be brought in on the day of Science Fair.

☐ Project Idea Submission Form

👉 Complete this page and submit it for approval before beginning your project and testing. Write clearly and be ready to revise your question after teacher feedback. **DUE DATE:** Nov. 11

Name: _____	**Class: _____**	**Date: _____**

Science field: _____

My testable question: How does *[the factor I change]* affect *[the result I measure]*?

Why did I choose this question?

Independent variable — *what I will change*

Dependent variable — *what I will measure*

Constants — *what I will keep the same*

Materials needed

How I will collect numerical data — *observation, survey, trials, etc*

Parent's Signature	**Teacher's Decision**
☐ Approved _____	☐ Approved **OR** ☐ Revise and Resubmit

For Grades 5th – 8th

BADR ISLAMIC SCHOOL

ANNUAL SCIENCE FAIR

2026–2027

Subject: It's Science Fair time again (Jan 6th & 7th)!

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We encourage every student's effort, and prizes will be awarded for the **top projects** in each grade level, recognizing excellence in research and presentation. Plus, projects with the **highest grade** will have the opportunity to be part of **Hudson County Stem Showcase** being held at the LIberty Science Center on March 01, 2027.

We are incredibly excited to see the innovative work our students will produce this year. We look forward to celebrating their hard work and achievements at the Science Fair!

Sincerely,

Badr School Administration

👉**This packet includes:**

Project Timeline	Helpful Online Resources	Required Display Board Layout
Parent's Role	Required Report Sections	Project Idea Submission Form

Kindly **read it thoroughly!**

☐ Timeline

👉Please use the timeline below as a guide to keep your child's project on schedule.

Dates	Checkpoint	Student deliverable
Nov 11	**Idea Launch**	Topic Submission Form Due
Nov 17	**Background Research**	Background Research Summary Due
Nov 24	**Material and Procedure**	Materials, method, data table, and trial plan Due
Dec 1	**Data and Results**	Table/graph depicting results; draft analysis and conclusion Due
Dec 15	**Report 1st Draft**	Complete first report draft Due
Dec 22	**Final Project Report**	Written final project report with all the required section Due
Dec 29	**Project Poster Board**	Final project poster board with all the required sections Due
Jan 1 & Jan 4	**Rehearsal Project Presentation**	Share 2-3 minute project presentation for inclass practice
Jan 6 & Jan 7	**Annual Science Fair Days**	Final Project Presentation for judges

☐ Parent's Role

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- Ensure safety precautions are followed throughout.
- Assist with display board construction and transport to school.

☐ Helpful Online Resources

Project Ideas	Online Research
Science Buddies Science Fair Central KiwiCo Home School Tools Learning Center	scholar.google.com kids.nationalgeographic.com sweetsearch.com infotopia.info britannica.com/science snexplores.org sciencejournalforkids.org

☐ Required Report Sections (5th–8th grades)

👉 Each **bold term** should be clearly visible and labeled in the final report.

Section	What belongs there
1. Title page	Project title, student name, class or grade level, teacher, and submission date.
2. Table of contents	Section titles with page numbers after the report is finalized.
3. Abstract	A 150–200 word overview of the question, method, main result, and conclusion.
4. Question and purpose	The testable question and why the investigation matters.
5. Background research	Scientific ideas needed to understand the project, supported by sources.
6. Hypothesis	A prediction with scientific reasoning: "If…, then…, because…."
7. Variables	Independent variable, dependent variable, constants, and control group when appropriate.
8. Materials	A precise list with quantities, sizes, and units.
9. Procedure and safety	Numbered, repeatable steps plus risks and precautions.
10. Results	Raw and summarized data, observations, labeled tables, and graph or chart. Discuss unusual results, measurement limits, and likely sources of error.
11. Analysis	Patterns, comparisons, calculations, uncertainty, and possible sources of error.
12. Conclusion	A claim that answers the question and uses specific evidence and reasoning.
13. Reflection/Future Study	What was learned, what could improve, and what question could come next.
14. References	Every source used, listed in one consistent citation style.

Report Format

- Typed; Double-spaced; TImes-New Roman Font; Size 12.

☐ Required Display Board Layout

Left Panel	Center Panel	Right Panel
Abstract A 150–200 word overview of the question, method, main result, and conclusion.	**Title page** roject title, class or grade level, teacher, and submission date	**Analysis** Patterns, comparisons, calculations, uncertainty, and possible sources of error.
Question and purpose The testable question and why the investigation matters.	**Materials** A precise list with quantities, sizes, and units.	**Conclusion** A claim that answers the question and uses specific evidence and reasoning.
Background research Scientific ideas needed to understand the project, supported by sources.	**Procedure and safety** Numbered, repeatable steps plus risks and precautions.	**Reflection** What was learned, what could improve, and what question could come next.
Hypothesis A prediction with scientific reasoning. "If…, then…, because…."	**Results** ıw and summarized data, observations, labeled tables, ar aph or chart. Discuss unusual results, measurement limit and likely sources of error.	**References** Every source used, listed in one consistent citation style.
Variables Independent variable, dependent variable, constants, and control group when appropriate.		

How to use this layout

- Put each section in the panel shown above — these sections match your written report.
- Make every **bold term** clearly visible and labeled on the board, so a judge can find each section at a glance.
- Make your title and Results the **biggest** things on the board, so they can be read from a few steps away.

👉 SPECIAL NOTE:

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How I will collect numerical data — *observation, survey, trials, etc*

Parent's Signature	**Teacher's Decision**
☐ Approved _____	☐ Approved **OR** ☐ Revise and Resubmit