



The STEMite  
Zone Fair

# Parents' & Teachers' Guide

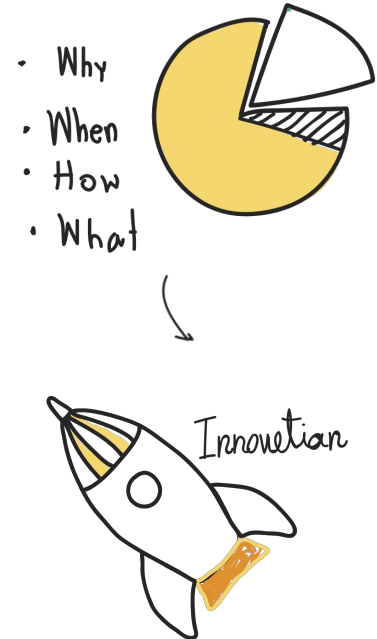


Finding a Fair Project

# Nurturing Curiosity and Creativity

Curiosity lies at the heart of every child. They wonder, they question, and they're constantly trying to understand the world around them. **This fair is about harnessing that natural curiosity and turning it into a tangible project.** Remember, it doesn't have to be overly complex. Sometimes, the most impactful projects emerge from everyday observations and questions!

Every question and every observation offers a learning opportunity – it's about the **process**, the **creativity**, the **questions**, and the journey. Encourage the students to embrace both their curious and creative sides!





## Broadening the Horizon

Though we're grounded in **STEM** (Science, Technology, Engineering, and Mathematics), we understand that every discipline interacts. Hence, projects can even **explore the social sciences, examining the human element within the realm of STEM**. This offers an opportunity to present projects that not only exhibit scientific curiosity but also **human empathy and understanding**.





# The 3 Types of Projects

You will notice in the drop-down list when the students are about to submit their proposals on the website that there are **three (3) options** for the kind of project they did. These include:



**Experimental projects**



**Study or Discovery projects**




**Innovative/Innovation projects.**


*The following is a breakdown of what this means. With this, you can start providing guidance on what project they would like to embark on earlier on.*



# Experimental Projects

These involve conducting a hands-on experiment. They ask a specific question, create a hypothesis, and test that hypothesis.

 **Design:** Identify a specific question, form a hypothesis, and design experiments to test that hypothesis.

 **Tip:** Often, the best experiments come from everyday wonders – *“Why does toast always land butter side down?”*







# Study or Discovery Projects




Here, students will study or observe situations to understand the why or how of a phenomenon. This could range from observing animal behaviors to studying the effect of video games on sleep patterns.


 **Design:** Choose a phenomenon or behavior, form a question around it, and study it in depth.

 **Tip:** This could range from observing star patterns to understanding cultural practices in their community.

# Innovation Projects

For those who love to build or design, this is their playground. Here, students identify a problem, design a solution, build a prototype, and then test its effectiveness.

 **Design:** Identify a common problem, brainstorm solutions, create a prototype, and test its efficacy.

 **Tip:** Challenges like *“Can you design a tool to make watering plants easier?”* can spark imaginative solutions.



# Project Discovery and Execution

## a) Starting Simple

Encourage students to look around them. Often, inspiration can be found in **daily routines, hobbies, or even chores.**

## b) Asking the Right Questions

To help students discover their project, **ask open-ended questions:**

- What have you always wondered about?
- Is there something you observed and want to understand why or how it happens?
- Have you seen a problem in our community you'd like to solve?





### c) Logging the Journey

Emphasize the **significance of maintaining a logbook**. This isn't just a place to jot down data but also thoughts, observations, and learning moments. From day one, every idea, every failure, and every '**Aha!**' moment should find its space in this logbook. This will be a key item we will be looking out for at the fair for higher points - how detailed and complete the student's logbook is!

### d) Be the Guide, Not the Doer

Your role is to be a sounding board, a guide. **Let the student lead, make mistakes, and learn. The journey is as important as the end result.**





# Sample Questions to Ignite Inspiration

**1**

"Is there a task at home you wish could be made easier?"

**2**

"Is there a game you play and wonder if it affects your reaction time?"

**3**

"Is there something that our community lacks, and you think you can design a solution for it?"





**4** "Have you ever wondered how plants know which way to grow?"

**5** "Did you ever stop to think why some foods taste sour and others sweet?"

**6** Recall a story or news you heard recently. Was there a question it left unanswered for you?"





**7**

**What's a device or tool you wish existed, even if it sounds like science fiction?**

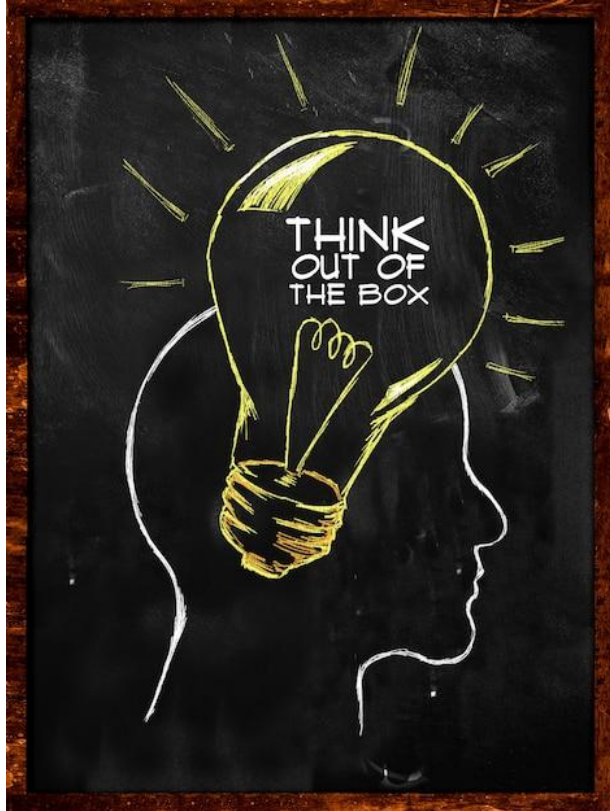
**8**

**Think about your hobbies. Is there something you'd like to improve or understand better about them?**

**9**

**What's something you observed in nature or your community that made you wonder "Why" or "How"?**





## The Creative Twist: Beyond the Norm

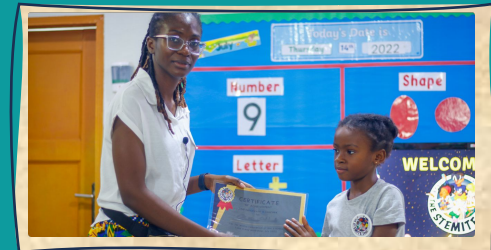
While the **core of their project lies in research and results**, the presentation can be a palette of creativity. From expressing findings through a song, showcasing their results in an art form, to creating an interactive presentation, the sky's the limit! At The STEMite Zone, **we believe in fostering not just logical but also creative thinkers.**





The STEMite  
Zone Fair

The STEMite Zone has successfully run annual programs, including virtual STEM programs for kids of African descent in Canada and Nigeria (2021) and an in-person STEM workshop in Lagos (2022).



# The Journey Beyond the Fair

Remember, the STEMite Zone Fair isn't just about the projects. It's about **nurturing a mindset of inquiry, resilience, and creativity**. It's about nurturing a **lifetime love of learning**. The skills the students acquire, the challenges they overcome, and the curiosity they harness will equip them for challenges beyond the fair. **Let's make this journey memorable, creative, and uniquely their own.**




# Need More Guidance? We are Here for You!


We've got great resources on our website.

For any questions or additional support, reach out to The STEMite Zone team:

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