

CFAL Makers Fete - Breakthrough Challenge Guidelines

Objective

Encourage students to creatively explain a scientific concept, innovation, or discovery in a simple, engaging, and informative manner.

Participation Rules

1. **Eligibility:**

Open to all students of CFAL in grades 7–12. Group participation (up to 3 members) is allowed.

2. **Presentation Format:**

Students may use any of the following modes:

- PowerPoint presentation (max 10 slides)
- Poster/chart paper display
- Physical models or props (optional, if relevant)
- A combination of the above

3. **Duration:**

- Each presentation must be between 4–5 minutes.
- A 2-minute Q&A session with judges will follow.

4. **Topic Selection:**

- Choose a STEM-related topic: Physics, Chemistry, Biology, Mathematics, or Technology.
- Topics must be submitted for approval by 12th December 2024.

5. **Content Requirements:**

- Explanation must be original, creative, and easy to understand for peers.
- Avoid technical jargon unless explained clearly.
- Include at least one practical application or real-world example.

6. **Submission Deadline:**

Materials (if required, such as slides) must be submitted by 12th December 2024.

Presentation Guidelines

1. **Structure:**

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- Begin with a brief introduction (topic, relevance, and objective).
- Use visuals and props creatively to support your explanation.
- Conclude with a summary of key points or an impactful takeaway.

2. Delivery:

- Maintain clear and confident communication.
- Interact with your audience to make the presentation engaging.

3. Design Tips:

- Keep visuals clear and uncluttered.
- Use diagrams, flowcharts, or animations for better understanding.

Rubrics for Evaluation

Total Score: 50 Points

Criteria	Points	Description
Clarity of Concept	10	The concept is explained clearly, using simple language, and the audience can easily grasp the key ideas.
Creativity and Innovation	10	The presentation demonstrates originality in approach, creativity in visuals or delivery, and innovative thinking in presenting the topic.
Scientific Accuracy	10	The information is factually correct and aligns with scientific principles.
Engagement	10	The presentation is engaging, interactive, and holds the audience's attention throughout.
Relevance and Impact	5	The topic chosen is relevant to current science or technology and demonstrates a clear connection to real-world applications.
Delivery and Communication	5	The presenter(s) demonstrate confidence, clear communication, and effective time management.

Important Notes

1. Plagiarism will result in disqualification. Ensure all work is original and properly cited where necessary.

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2. Judges' decisions are final and binding.
3. For technical or resource support, contact the Makers Fete Organizing Team.