

# ABOUT

## JOS STEM COMPETITION 2025/2026

**Science, Technology, Engineering and Mathematics (STEM)** is a national education movement designed to create critical thinking skills across disciplines, prepare students for science and math courses in college, and help communities stay competitive in a global economy. Evidence shows these schools and programs produce graduates with a deeper knowledge and a stronger passion for learning, particularly in science and mathematics. That knowledge and passion translate into much higher rates of college attendance and more students majoring in scientific and technical fields.

The **JOSSTEM** Competition program is designed to prepare students for success in post-secondary education, career, and citizenship. It is designed to appeal to students who seek a small-school approach to learning, where academic subjects are connected, and where students are engaged in rigorous science and mathematics content integrated with a STEM-themed pathway.

**JOS STEM** is a competition that aims to raise the standard of Science, Mathematics, and Engineering on the Plateau, to meet global competitiveness by stimulating critical thinking, computational creativity, rapid problem analysis/recall, and mental agility in real time.

A truly merit-based competition, created to ignite curiosity among learners, stimulate creative exploration, and equip them as future innovators and problem-solvers. The competition which is under the supervision of the University of Jos as well as ULESSON (an Online Learning App for Secondary School Students in Africa), is organized by the Haven of Hope and Emmaus Bible Centers Mission (EBCM), an American Christian Mission-based NGO, focuses on:

1. **Cultivating Curiosity and Creativity:** Inspiring students to ask questions, explore, experiment, and invent new ideas.
2. **Preparing for Future Careers:** Recognizing the essential role of STEM fields in today's evolving workforce.
3. **Encourage Confidence, Resilience, and Experience:** By working through challenges and learning from setbacks in a supportive setting, students gain confidence to pursue STEM learning and persevere in the face of difficulties. The experiences enhance the student's academic skills but also nurture the social and emotional competencies needed for success in school and beyond.

### ➡ WHO CAN PARTICIPATE?

- **Category A:** Any Pupil of Grade/Primary 4, 5 or 6 and is NOT more than 12 years of age

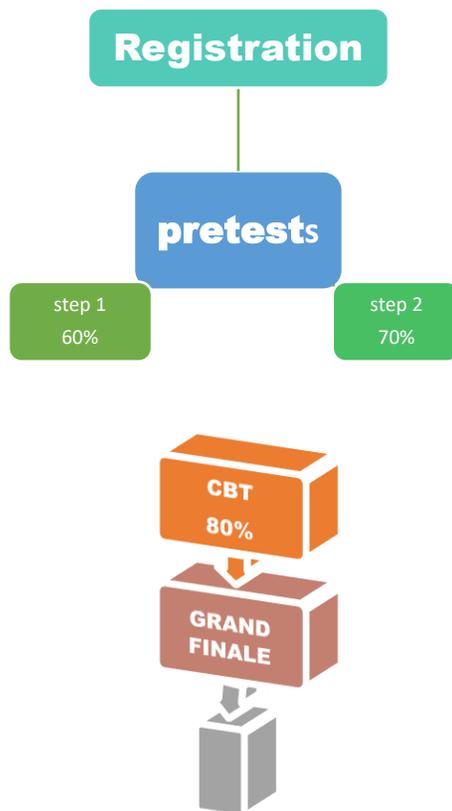
### ➡ REGISTRATION PROCEDURES

- To participate, candidates must log on to [www.josstemcompetition.com](http://www.josstemcompetition.com) to register.
- Create an account with username and password
- Candidate's email can only be used once and cannot be used by another.
- Log in to take the pretests (only two attempts are allowed per step).
- Successful candidates who pass the first step shall proceed to take the second pretest.
- Candidate can download and print results from each of the preselection steps.
- Candidate will need to score 60% & 70% to pass preselection steps 1 & 2, respectively

- Candidates who are successful from the second step of the preselection stage will be invited to the **CBT EXAMINATION** (Semi-Finals).
- Successful candidates who scored 80% and above CBT shall qualify for the finals.
- Each finalist individually or as a group will be required to send an entry of a science project for exhibition at the grand finale.
- Only NEW, original project will be accepted.
- Only project that meets judging criteria will be selected for display at the finals.

## ➔ COMPETITION STAGES

- **STAGE 1: Registration**  
Pre-test – **First Step 60% & Second Step 70%**
- **STAGE 2**  
CBT Test– **80% pass mark**
- **Grand Finale** – finalists



## COMPETITION SUBJECTS

- Science (Basic science; Computer Science; CISCO)
- Technology (Basic Technology; Software; Robotics)
- Engineering (Life Applicable Questions)
- Mathematics (Pre-algebra; Pre-Statistics; Pre-Geometry)

## SUPERVISORS

- University of Jos, Department of Science and Technology
- ULESSON

## PARTNERS

- UBA BANK
- ZENITH BANK
- EBCM/HHA
- SOLAP GROUP
- **PRIZES**
  - Winner #500,000/ Full Scholarship to study at HHA.
  - 1<sup>st</sup> Runner Up #300,000/ Medal/Certificate of Credence.
  - 2<sup>nd</sup> Runner Up #200,000/ Medal/Certificate of Credence.

## GRAND FINALE

- The finals of this competition shall feature only successful candidates who have scored **80%** and above in the CBT examination.
- Each finalist individually or as a group will be required to send an entry of a science project for exhibition at the grand finale.
- Only NEW, original project will be accepted.
- Only project that meets judging criteria will be selected for display at the finals
- The finals shall have 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> Rounds with each round, candidates are knocked out.
- To determine the winner, the final lab of the competition shall be called a “**Final of Finals**” where candidates will be expected to answer as many questions as possible across the STEM field correctly as possible in 60 seconds.
- The finals for the candidate’s innovation exhibition shall be open to audience vote to determine the winner in line with the criteria.

### Innovation exhibition finals

The finals for the candidate’s innovation exhibition shall be open to audience vote to determine the winner in line with the criteria, thus;

- 50 points: Positive impact potential
- 25 points: Innovation and creativity
- 25 points: Clarity of presentation

Time Allowed: **5mins**

## SUMMARY

### STAGE 1:

#### Preselection: Registration/online Pre-test

Complexity of Questions (NERDC for Category A, Primary & Category B for Secondary Schools)

**Step 1:**

Total No. of Questions: **25** (Math-10, Science 5, Tech 5, Engr. 5)

Time allowed: **13.75mins** (Math-10mins, Science 75secs-Tech- 75secs, Engr-75secs)

Step 1 Pass mark – **60%**

**Step 2:** Total No. of Questions: **25** (Math-10, Science 5, Tech 5, Engr. 5)

Time allowed: **10mins** (Math-7.5mins, Science 50secs-Tech- 50secs, Engr-50secs)

Step 2 Pass mark – **70%**

**STAGE 2:**

**CBT: Physical (Computer Lab Centre) (28<sup>th</sup> March, 2026)**

Complexity of Questions (**Hybridized Curriculum for Primary & Sec. Schools**)

Total No. of Questions: **65** (Math- 20, Science: 15, Engineering: 15, Technology: 15)

Time Allowed: **22.5mins** (Math-15mins, Science 150secs-Tech- 150secs, Engr-150secs)

CBT Pass mark- **80%**

**Note: Only the top 16 performances from both categories (A&B) will be shortlisted into the finals.**

**STAGE 3:****Grand Finale**

Complexity of Questions (**Junior & Senior Olympiad**)

Round 1

Total No. of Questions: **7** (Math- 3, Science & Tech: 2, Engineering: 2)

Time Allowed: **1.45mins** (Math-45secs, Science& Tech 14secs, Engr-14secs) X16

=**20 mins** X 2 = **40mins**

CBT Pass mark: **Only the top 8 performances from both categories (A&B) will be shortlisted into the finals.**

Round 2

Total No. of Questions: **The candidate answer as many questions as possible in one minute in the Stem subjects** (Math-, Science &Tech: Engineering:)

Time Allowed: **3min** X 8= **24mins**

**Final of Finals**

Total No. of Questions: **The candidate answer as many questions as possible in one minute in the Stem subjects mixed not isolated** (Math- Science: Engineering: Technology:)

Time Allowed: **1min** X 4= **4mins** X2

= **8mins**

**Note:** Hybridized curriculum encompasses of Nigeria, Cambridge, America and other International and Africa prototypes.