

# LEGO BRICK-A-THON 2024



## ABOUT THE EVENT

Imagine the first-ever LEGO Extravaganza in Mumbai – a thrilling, innovative event designed to ignite creativity and inspire young minds! This exciting day-long event, held at a grand venue in the city, is filled with unprecedented LEGO challenges that combine fun, teamwork, and hands-on problem-solving. From budding engineers to creative thinkers, students of all ages will be drawn into a world of LEGO Technic where the only limit is imagination!

# Join Us for the LEGO Challenge Day!

Unleash your creativity and teamwork at our upcoming LEGO Challenge Day! This exciting event invites parents and children to partner up and tackle unique building challenges together. Participants will work side by side to design and construct incredible LEGO creations using materials provided. With a surprise challenge announced on the day of the competition, the excitement and anticipation are sure to keep everyone engaged!

## DIFFERENT CATEGORIES OF THE COMPETITION

### 1.Lego Speed Building LEGO Competition: Fastest Hands, Best Build!

CATEGORIES. (GRADE 1-3 ) (GRADE 4-6) (GRADE 7-10). **FEES :2000/-INR**

### 2.Lego Ramp Challenge: Build, Race, and Compete!

CATEGORIES. (GRADE 1-3 ) (GRADE 4-6) **FEES :1000/- INR**

### 3. Lego WeDo 2.0 Race Challenge: Build, Code, and Compete!

CATEGORIES (GRADE 1-3 ) (GRADE 4-6) **FEES :2000/-INR**

### 4. Lego Parent-Child Challenge Event

CATEGORIES (GRADE 1-3 ). **FEES :2000/-INR**

### 5 .Lego Jr Building Challenge

CATEGORIES ( JR AND SR KG ) **FEES :1000/-INR**

# Speed Building LEGO Competition: Fastest Hands, Best Build!

## Overview:

The Speed Building LEGO Competition is an exciting, high-energy event where competitors will be tasked with building a LEGO model on the spot.. This competition is divided grade-wise to ensure fairness, with students competing against their peers in a test of speed, precision, and focus.

## Competition Structure:

### 1. Grade Divisions:

- Grades 1-3: Simple builds with fewer steps (e.g., small vehicles, machines).
- Grades 4-6: Medium complexity builds (e.g., moderate machines, structures).
- Grades 7-10: More complex models (e.g., larger machines, multi-step constructions).
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## Rules & Regulations:

### 1. On-the-Spot Build:

- All competitors will start with the same LEGO kits.
- Instructions will be provided at the start of the timer, and no prior practice is allowed.
- The timer will begin once everyone has their instructions and kits ready.

### 2. Correct Build:

- The model must be built exactly according to the provided instructions.
- Accuracy is crucial—points will be deducted for any incorrectly placed pieces or skipped steps.

### 3. Speed & Accuracy:

- The winner is determined by who completes the build the fastest with the most accurate build.
- Penalties will be imposed for each incorrect step, so accuracy cannot be sacrificed for speed.

### 4. Grade Fairness:

- Each participant competes within their grade division, and kits will be selected based on the age-appropriate skill level.
- Judges will inspect the final builds for both speed and accuracy.
- Bonus points will be given to competitors who finish with no errors.



## Scoring Criteria:

### 1. Speed:

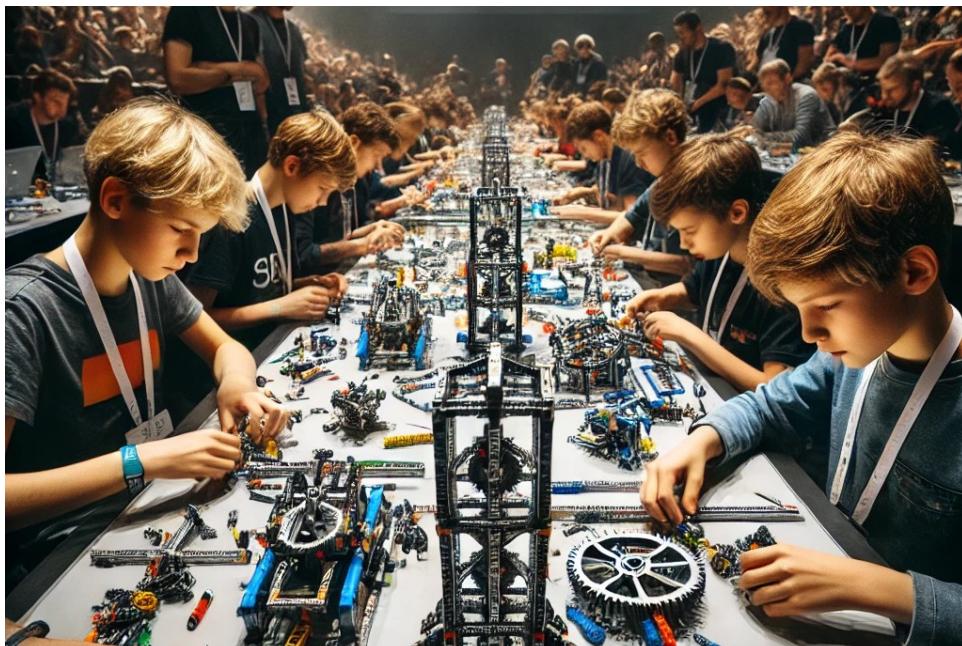
- Fastest Completion: 50 points
  - 50 points to the first finisher, 40 to the second, 30 to the third, and so on.

### 2. Accuracy:

- Correct Build: 40 points
  - 40 points for a completely accurate build with no errors.
  - Deduct 5 points per mistake (incorrect piece, misplaced piece, or missing piece).

### 3. Completion Bonus:

- Complete within time: 10 points
  - If a competitor finishes the build within the time limit (whether or not they are first), they get a 10-point bonus.



## Why Students Will Love This:

The Speed Building LEGO Competition is a thrilling mix of adrenaline, precision, and problem-solving. Not only does it reward the fastest hands, but it also celebrates those who can think quickly while paying attention to detail. It's the perfect event for students who love challenges and a healthy dose of competition!

# LEGO Ramp Challenge: Build, Race, and Compete!

## Overview:

The LEGO Ramp Challenge is an exhilarating on-the-spot competition where students must design and build a

LEGO car capable of racing down a ramp.

The goal is for the car to travel as far as possible after leaving the ramp.

Grades 1-3: Simple, small cars with fewer LEGO Technic pieces and basic designs.

Grades 4-6: Intermediate builds with more parts



## Ramp Design:

A standard ramp will be used for all competitors, designed at an angle to provide enough momentum for the cars. Each participant will have **10 -20 minutes** to complete their car build.

Competitors must build their cars on the spot, starting with **LEGO kits**.

**Instructions will be provided at the start, but students can personalise aspects of their design.**

No external help (from others or the audience) is allowed during the building phase.

Creative modifications are allowed as long as they comply with the instructions and don't exceed the kit's given pieces.

No non-LEGO materials can be added to the car.

Each car will have 3 official run down the ramp.

Cars will be judged on how far they travel from the end of the ramp.

The car that travels the farthest distance in each grade division will be declared the winner.

# LEGO WeDo 2.0 Race Challenge: Build, Code, and Compete!

## Overview:

The LEGO WeDo 2.0 Race Challenge is a thrilling competition where students must build a car using the LEGO WeDo 2.0 education set and then code it to race against others.

## Requirements:

Students must have prior knowledge of LEGO

WeDo 2.0 building and coding techniques. Each participant must bring their own tablet with the LEGO WeDo 2.0 app pre-installed.

LEGO WeDo 2.0 kits will be provided at the competition, including motors, hubs, wheels, and other essential parts for the build.

## Build and Code:

Students will have 45 minutes to build and code their LEGO WeDo 2.0 car.

They will be allowed to use motors, sensors, and any other components in the WeDo 2.0 set to design a functional, self-propelled car.

## Race Format:

Cars will race on a straight track.

## **General Guidelines:**

- **No Re-Runs:** Once a car has raced, its performance stands. Malfunctions due to build or coding errors will not be grounds for a re-run.
- **Fair Play:** No external modifications (non-LEGO parts or weight adjustments) are allowed, and no help from spectators or other participants during the build phase.
- **Pre-Race Check:** Before the race begins, judges will check the build to ensure it follows the competition rules. **2 Practise Runs will be allowed for the Competitors.**





# Junior LEGO Building Challenge

## Overview:

The Junior LEGO Building Challenge is an exciting, fun-filled event designed especially for young kids! This is a wonderful opportunity for children to unleash their creativity while competing in a friendly environment. All LEGO parts will be provided on the day of the event, so the kids just need to show up, build, and have fun!

**Participants must be aged 4 -5**

**( JUNIOR KG & SENIOR KG STUDENTS)**

## Challenge:

Each participant will have 30 MINS to build their own LEGO creation using the provided LEGO bricks. The goal is to have fun while showcasing creativity, imagination, and

basic building skills. The theme of the challenge will be revealed on the event day, adding an element of surprise! .

## Scoring Points:

- Creativity: How unique and imaginative is the build?
- Structure: Is the creation sturdy and well-constructed?
- Theme Integration: How well does the build incorporate the surprise theme of the day?
- Speed: How quickly and efficiently is the build completed within the time frame?

## Why Should Kids Participate?

- Encourages Creativity: Building with LEGO helps kids think outside the box and boosts their problem-solving abilities.
- Confidence Building: The competition provides a platform to showcase their talents, boosting self-confidence.
- Fun & Learning Combined: The event is structured to be fun, engaging, and a learning experience all at once!

This event is not just about winning—it's about fostering a love for building, creating, and competing in a fun and supportive environment. All participants will receive certificates, and there will be special awards for the top builders!



# Lego Parent-Child Challenge Event

## Overview:

Calling all parents and kids!

The Parent-Child LEGO Building Challenge

is the ultimate fun and engaging

competition where families come

together to build, learn, and bond!

This is a fantastic opportunity for

parents to collaborate with their children

while exploring creativity, teamwork, and LEGO building skills.

## Age Group:

Open to children aged [GRADE 1-4] and their parents.

## Challenge:

On the day of the event, a surprise theme will be revealed! All the LEGO pieces you need will be provided, so all you and your child need to do is show up and be ready to build! The challenge is not just about creating, but also about parents learning from their kids as they work side by side.

Whether it's a bridge, a robot, or a car —your teamwork will guide the build!

## Why Participate?

- **Strengthen Parent-Child Bond:** This event is an amazing way for parents and kids to work together, enhancing communication and teamwork.
- **Fun & Learning Together:** Parents often discover how much they can learn from their children's creativity and problem-solving skills.
- **Build Together:** Engage in a playful, hands-on challenge that will bring out the builder in everyone, regardless of age.
- **Surprise Theme:** With a surprise build revealed on the day, everyone gets an equal start!

