

# VROOM VROOM.....

Reduce the amount of plastic waste generated by using our specially designed eco –friendly car kit which not only is a great way to play and bust the boredom but to support learning and understanding of the physics concepts also.





**Name of the toy/toy kit:** Vroom Vroom

**Material used:** Plastic bottle

- Chart paper
- Chart paper or card Board
- Wooden skewer
- Two straws
- Balloon
- Tape
- Scissors or sharp knife
- Different materials like foil, thermocol, sand paper etc.

• **\*Age group for playing:** 5 to 8 years

**\*Age group for creating :** 7 to 13 years

**\*Time of preparation :** 2 hours

**Cost :** Around Rs. 50



## CONCEPT/SKILLS MAPPED (PEDAGOGY):

- Students will learn the concepts of Newton's Law of Motion, friction, jet propulsion, and air resistance by playing with this toy car. The following skills are developed with the help of this kit.
- Enhance child's engineering and tinkering skills
- Teach students to solve problem and think critically;
- Increase concentration
- Help students reason and make observations



## HOW TOYS/GAMES CAN BE USED?

This toy can be used for teaching learning purposes. It might not seem like it at first, but this car is loaded with physics and engineering concepts! The students can compete by changing the set of wheels provided in the kit and race against each other. Whose car will go the fastest? In the process they will learn about the various factors on which the speed of car depends. The following key concepts can be explained and demonstrated to students with the help of this toy car.

- Kinetic energy
- Potential energy
- Conservation of energy
- Newton's laws of motion
- Friction
- Speed and distance



## **HOW THIS TOY/GAME IS IMPORTANT IN LEARNING AND DEVELOPMENT OF CHILD?**

Our toy car helps foster ingenuity and creativity in the kids. While playing with this car they can record their own observations and will learn to hypothesize that develops scientific attitude in children.

It also teaches students how to solve problems by using their critical thinking skills. By engaging in this toy, students learn how to examine problems and then create a plan to solve them.



## **ABOUT THE TOY:**

Our car is made up of paper and other eco friendly materials. It has a balloon on the top which provides it a thrust to move. The toy car kit comes with detachable wheels. The texture of material used for making the rim of the wheels can be changed. The kids using the car to play can change the wheels and can make observations regarding the speed and distance covered by the car. A great way to indulge in many investigations that lead to fruitful learning!