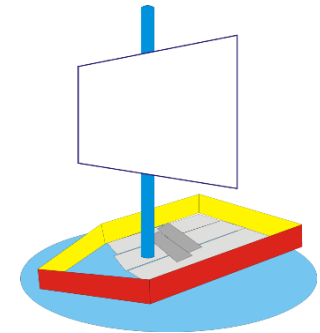
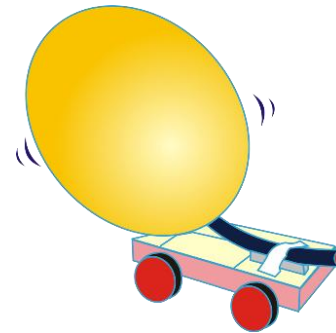




# A WORLD IN MOTION®

Bringing science, technology, engineering and math (STEM) to life in the classroom



**SAE**  
Foundation™  
The charitable arm of  
SAE International

**SAE**  
INTERNATIONAL®

**SAEINDIA** The Engineering Society  
For Advancing Mobility  
Land Sea Air and Space  
Society of Automotive Engineers INDIA

## Origin & History

The SAE Foundation's mission is to fund, develop and deliver these educational programs that provide hands-on, project based, collaborative learning experiences through integrated STEM Education.

Since 1990, the AWIM program has expanded from a single collection of teacher lesson plans into a series of age-appropriate "Challenges:" These challenges are designed for 3 categories based upon the class / grade in which the student is studying.

The AWIM curriculum joins together teachers, students, and Industry volunteers in an exploration of physical science while addressing essential mathematical and scientific concepts and skills. Industry volunteers play an essential role in motivating the next generation to pursue careers in STEM. Internationally so far about 4.5 million students and over 30,000 volunteers has participated in these programs.

An independent five year longitudinal study was conducted by Goodman Research Group, Inc. that measured the effects on students' science and mathematics literacy through AWIM.

Findings include:

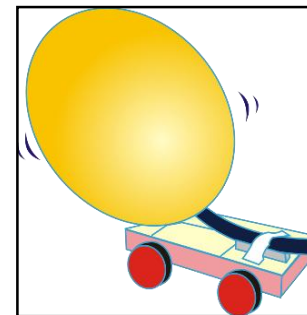
- Participation in just one AWIM Challenge is enough to start students on a path of knowledge and interest in engineering
- Both teachers' repeated use and increased familiarity with the program plus the presence of a volunteer adds to the value of the AWIM program experience

## AWIM India Footprint

AWIM was initiated by SAEINDIA in 2007 with introduction of one "Challenge" of Jet Toy for students studying in 6<sup>th</sup> standard. In these 8 years this initiative has grown from 2 participating cities to 20.

More than 50000 students & 1000 teachers has been benefitted from this program & has been volunteered by more than 1000 Industry professionals.

In 2011 the second "Challenge" of skimmer was introduced for the students studying in 5<sup>th</sup> standard.

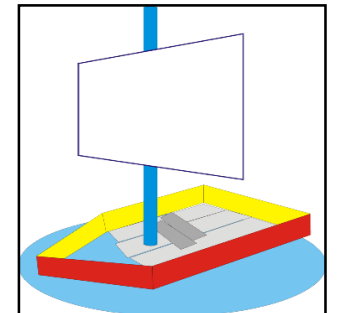


### Jettoy

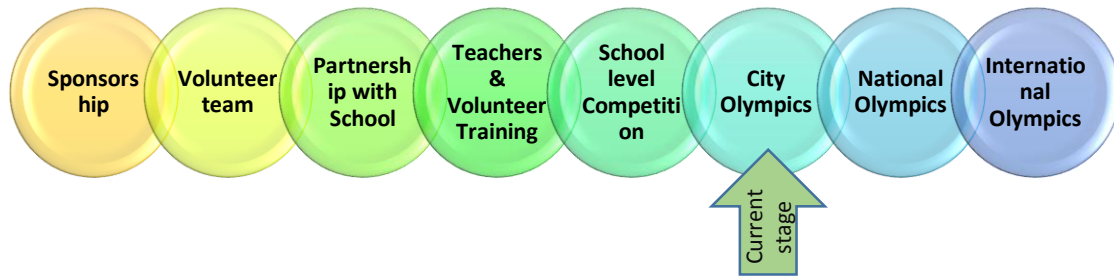
Balloon-powered toy cars that meet specific performance criteria like; travels far, carries weight, or goes fast. Jet propulsion, friction, air resistance and design are the core scientific concepts students explore in this challenge

### Skimmer

Students construct paper sailboats and test the effect of different sail shapes, sizes, and construction methods to meet specific performance criteria. Friction, forces, the effect of surface area and design are some of the physical phenomena students encounter in this challenge.



# AWIM Operational model



## AWIM 8<sup>th</sup> National Olympics

**22<sup>nd</sup> & 23<sup>rd</sup> January 2016**



**Mahindra Research Valley,  
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Join us in the mission to solve the **STEM** crisis and building the next generation of engineers and scientists.

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