



## ABOUT AWIM

A World In Motion is a administered, volunteer-assisted program that brings Science, Technology, Engineering and Mathematics (STEM) education to life of students. AWIM incorporates the laws of physics, motion, flight and electronics into age-appropriate hands-on activities that reinforce classroom STEM curriculum.

There are two challenges in India for the students, namely, Skimmer Challenge (Grade 5) and JetToy Challenge (Grade 6). The competition includes designing, fabricating and validating the challenge as per specifications. The vehicle would be evaluated for its design, performance accuracy and presentation as specified for different Parameters.

### Skimmer Challenge (Grade 5):

Students make paper sailboats that are propelled by fans across the floor. They test the effect of different sail shapes, sizes and construction methods on the performance of their skimmers. The goal of this challenge is to design a set of skimmers that reliably meet specific performance criteria. Friction, forces and effect of surface area are some of the physical phenomena students encounter in this challenge.

### JetToy Challenge (Grade 6):

Students make balloon powered toy cars. Their challenge is to design an appealing toy that performs in a specific way, such as travels far, carries weight or goes fast. Students experiment with different chassis designs and nozzle sizes to determine their effect on the Jet Toy's performance. Jet propulsion, friction and air resistance are the core scientific concepts students explore in this challenge.

## AWIM NATIONAL CHAMPIONS 2017



## SCHEDULE

### Saturday, 20<sup>th</sup> January 2018

	Start	End	Activity
Day 1	12.00		Hotel Check In
	12.00	13.00	Registration / Welcome Kit Distribution
	13.00	14.00	Lunch
	14.00	16.15	Rest Time
	16.15	17.00	Departure from Hotel / Arrival at Cummins (IOC)
	17.00	17.45	High Tea
	17.45	19.45	Welcome & technical Briefing
	19.45	21.00	Departure & Dinner at Hotel

### Sunday, 21<sup>st</sup> January 2018

	Start	End	Activity
Day 2	07.00	07.50	Breakfast at Hotel
	08.00	08.30	Arrival at Cummins (IOC)
	08.30	10:00	Inauguration & Welcome Address
	10:00	12:30	Kit Distribution & Fabrication
	12.30	13.30	Students & Event Volunteers Lunch
	13.30	14.30	Other Members Lunch
	13.30	17.30	Track Round & Presentation Round
	17.30	18.00	High tea
	18.00	19.00	Cultural Programs
	19.00	20.30	Valedictory
	20.30	21.30	Dinner
	21.30		Disperse

### Monday, 22<sup>nd</sup> January 2018

	Start	End	Activity
Day 3	07.30	08.30	Breakfast at Hotel
	08.30	09.30	Check out from Hotel
	09.30	13.00	Pune Local Sight Seeing
	12.30	13.00	Packed Lunch (in buses)
	13.00		Departure to Airport / Railway Station

## RULES & REGULATIONS

- From each city, the criteria for number of teams to attend National Olympics is as follows:
  - Zero Team of Jet toy and Zero team of Skimmer from all new cities, where AWIM activity has started this year (New city criterion - Less than 5 schools)
  - Team of Jet toy and 1 team of Skimmer from all new cities, where AWIM activity has started this year (New city criterion - 5 or more schools)
  - Zero Team of Jet toy and Zero team of Skimmer from all old cities, where AWIM activity was conducted last year also (Old city criterion – less than 5 schools)
  - Teams of Jet Toy and 1 Team of Skimmer for old cities, where AWIM activity was conducted last year also (Old city criterion – 5 to 9 schools)
  - Teams of Jet Toy and 1 Team of Skimmer for old cities , where AWIM activity was conducted last year also (Old city criterion – 10 or more schools).
- Each team may be accompanied by one teacher and one college volunteer.
- Two hours will be allotted for constructing toys along with the presentation and concept vehicles.
- Teachers are not supposed to interact with students during course of the event. Teacher's feedback session would be arranged during the event.
- Students are not supposed to carry anything with them in fabrication room.
- Only Test Engineers (2) will be permitted in the track area.
- Every team is required to prepare a poster for presentation.
- Teams are not allowed to use any external material for the construction, decoration, preparation and presentation of the concept car in presentation round. However, teams will be allowed to use external material for demonstrating the concept in front of the Judges. E.g. Tub with water, Wooden ramps, Table, Rope, etc., for which they have to inform the organizers before 15 days of the start of event.
- The judge's decision will be final and binding.

## REWARDS & RECOGNITION

### AWIM National Olympics 2017 Proposed Sponsorship

S. No.	Category	Prize Amount (INR)	
		Skimmer	Jet Toy
1	National Overall Winner	10000	20000
2	National 1 <sup>st</sup> Runner Up	7000	15000
3	National 2 <sup>nd</sup> Runner Up	5000	10000
4	Winner Maximum Distance	3000	5000
5	Winner Maximum Time	-	5000
6	Winner Turning Ability	3000	-
7	Winner Maximum Speed	3000	5000
8	Winner Maximum Weight	3000	5000
9	Winner Accuracy	3000	5000
10	Winner Team Work	1000	2000
11	Winner Cleanliness	1000	2000
12	Winner Discipline	1000	2000
13	Winner Presentation	1000	2000
14	Winner Aesthetics	1000	2000
15	Winner Sportsmanship	1000	2000
16	Winner Best Vernacular Team	1000	2000
17	Best Teacher	5000	10000
18	Best Student Volunteer	5000	10000
19	Best Industry Volunteer	5000	10000
20	Milestone Award	5000	10000

*Thank you for your kind support*

