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Academic Honours

Class/ Exam	Honour/Recognition
Grade 9 (2013-14)	1. 10 CGPA, Proficiency in Academics 2. Academic Scholarship and Commendation letter from Ameeta Mohan, Principal, Amity International School, Pushp Vihar
International French Olympiad (2014)	Silver medal
Grade 10(2014-15)	1. 10 CGPA, Proficiency in Academics. 2. Certification of Merit from Smriti Zubin Irani, Minister Human Resource Development, Government of India 3. Certification of Merit from Central Board of Secondary Education, India 4. Commendation letter from Ameeta Mohan, Principal, Amity International School, Pushp Vihar
Grade 11(2015-16)	72% aggregate

Extra-curricular activities

Title	Type	Recognition/Description	Awards/ Felicitation
Model United Nations (7 interschool & international and 5 intra-school) from 2012-15	Debating Competitions participated in: 1. AIMUN 2012(European Union) 2. ISMUN 2012(General Assembly)	1. Four times offered Executive Board position in junior and senior intra-school MUN 2. Leader and member of the school MUN club	1. Special Mention(Amity International MUN 2013) 2. Verbal Mention(Amity International MUN 2014)

	3. RISMUN 2013(General Assembly) 4. GDGIMUN 2013(Economic and Social Council) 5. ISMUN 2013(General Assembly) 6. AIMUN 2013(General Assembly) 7. Junior ISMUN 2014(Executive Board, General Assembly) 8.GDGIMUN 2014(Security Council) 9. MUNQSMUN 2014(General Assembly) 10. ISMUN 2014(General Assembly) 11.AIMUN 2014(International Atomic Energy Agency) 12. ISMUN 2015(General Assembly, Executive Board)	3. Sent for various interschool MUN sessions as a delegate	3. High Commendation(Intra School MUN 2013) 4. Best Delegate(Intra School MUN 2014) 5. Vice Chair of Executive Board, General Assembly(Junior Intra School MUN 2014) 6. Vice Chair of Executive Board, General Assembly(Intra School MUN 2015)
Global Times (School Newspaper)	Journalism, editing, writing	1. Page 9(Mosaic page) editor– January 27, 2014 issue 2. Cover page editor& Writer– November 24, 2014 issue 3. Mosaic Story writer – July 21, 2014 issue	Best Cover Story 2014

		4. Opinion contributor to Cover Story – February 3, 2014 issue 5. Conducted interview of Dr VS Chauhan, scientist and Padma Shri awardee – November 30, 2015 issue 6. Conducted interview of Analjit Singh, founder & chairman emeritus, Max Financial Services & Max India and chairman, Max Venture Industries– February 1, 2016 issue 7. Article'Textbook Ignominy' – February 1, 2016 issue	
Student Council 2015-16	Student government Team effort Intra-school	Vice Head Girl	
Debating	Interschool	1. Powergrid 2015 2. Tarangg 2015	First Prize – Powergrid, 2015

Leadership Positions

1. Vice Head Girl (2015-16)
2. Page Editor, Global Times (2013, 2014)
3. Co-Leader and Mentor of school MUN club (2013, 2014)
4. Executive Board member of Intra-School Junior and Senior MUN (2014, 2015)

Event Participation and Organisation

1. Leader of organisation team of Senior Annual Day 2014
2. Compere for Investiture 2016
3. Leader of organisation team of Teacher's Day
4. Organised social campaign for Youth Power at Epicuria, Nehru Place, and Nehru Place Metro Station
5. Organised social awareness campaign for Youth Power at Raahagiri, Connaught Place
6. Conducted fund raisers like Milk Booth in school, and selling DIY goodies in school carnival.

7. Participated in Mathamity 2013, 2015(School math project fair) and Vasudha 2014, 2016 (School science fair).

Social Service Project

Youth Power is a forum for an inter school competition in which every school is represented by a team of four students. The competition is based on bringing a change in the society. The theme for Youth Power 2014 was "Health" thus we chose "Dental Health" as the topic for this project.

Our project was given the name '32 Intact', and our activities were divided broadly into three phases: Awareness, Fund-raising, and Tangible. We conducted over a 100 activities, breaking the record of 70 activities of the previous year, and bagged the first prize.

All reach calculations are approximate.

Campaign Activities:

1. Signature campaigns, flash mobs, street plays, surveying at Raahagiri, Delhi Metro and Epicuria, Nehru place.
   Reach: 465,000 people
2. Rallies, activities like disinfecting toothbrushes, selling toothbrush covers
   Reach: Over 50 localities in Delhi
3. Dental camp for school students, underprivileged students, school helpers, and residents of Home for the Aged in Chattarpur, Delhi.
   Reach: 2000 people
4. Distribution the prescribed medicines and dental kits to the school helpers, underprivileged children, and security guards free of cost.
   Reach: 100 people
5. Interaction with school maids, guards, and women at the Rotary Slum Centre on the harmful effects of chewing tobacco on oral health.
   Reach: 100 people
6. Design & distribution of pamphlets and calendars on oral health, facts and tips on dental care in school, residential localities and at social events.
   Reach: 1000 people
7. Social Media (Facebook and YouTube)
   Reach: 400,000 people
8. Identification of underprivileged children with dental problems such as cavities, bleeding gums, tooth ache, etc. and got their treatment worth Rs. 15,000 free of cost.
   Reach: 6 children
9. Made herbal toothpaste& DIY tooth paste dispenser. Video demonstrating the manufacturing process launched on Facebook and YouTube.
   Reach: 8700 people
10. Organised panel discussion on 'Oral Hygiene'
    Reach: 50 people
11. We also took it global in UK, Spain and Germany. Interacted with the Mr. Heinz Paul, Mayor of Paderborn, Germany
    Reach: 5,000 people

12. Online petition on change.org regarding 'Dental Expenses should be covered in Medical Insurance'
    Reach: 500 supporters

Intellectual Interests and Projects

1. C-14 Radioactivity

Primary Aim: To introduce a new non-conventional source of energy.

Description:

In this project, I analysed the radioactivity of the element carbon-14 or C-14., and calculated the amount of energy released by C-14.For a nucleus to release its energy, it needs to undergo decay. I concluded the most viable option to be beta-decay by losing an electron.

The amount of energy released, as I calculated, by a single nucleus of C-14 is equivalent to the amount released when over 500 kg of carbon is burnt. This energy if harnessed could power whole cities and even small countries.

Carbon- 14 has a half-life of 5730 years, and a mass defect of 0.1102 u, and a binding energy of 102.7 MeV. An average household would require only 1.2 g of C-14 per day.

I also came up with a method of renewal of C-14. C-14 decays into N-14, which can be converted back into C-14 by reaction with cosmic rays. This finding resulted in a further analysis of cosmic rays, their potency, and their hazards. I even suggested a spacecraft- simulation for protection.

2. Cold Nuclear Fusion (Low Energy Nuclear Reactions)

Primary Aim: To check the viability of a non-conventional source of energy.

Description:

In this project, I researched about the types of nuclear fusion reactions, and estimated that the reactions between deuterium and tritium generate the maximum energy. I looked for a description of cold fusion, and its possibility, and came across some fallacies such as repulsion forces between protons, lack of expected products, and ratio of elements in a lattice. To combat these faults, I came up with solutions such as magnetic confinement and inertial confinement.

I calculated the amount of energy that would be released by the fusion of a deuterium and a tritium nucleus. However, the only obstacle in our project was that cold fusion still remains to be an impossibility in the world. I attempted to design a nuclear reactor with stainless steel anode and thorium cathode in a solution of 0.5 molar potassium carbonate electrolytic solution. A direct current of 200 Volts and 10 Amperes would be passed through the electrodes. I even took precautions like adding rubber to the base of the beaker, and plastic balls in the solution to avoid spillage.