

Design Thinking

Workshops

Introduction



Sciensation is a **science media organization**, based out of Hyderabad, which **conveys the excitement of doing research**, through **quizzes, lectures and events**.

Sciensation is a society registered (Regd No 701 of 2013) under Andhra Pradesh Societies Registration Act 2001

History

Year	Venue	Champions
2011	DAV, Safilguda	E&L School, Nallakunta
2012	Harihara Kala Bhavan	Bhavans Sri Ramakrishna Vidyalaya, Sainikpuri
2013	Bhartiya Vidya Bhavan	Little Flower High School, Abids
2014	Bhartiya Vidya Bhavan	Bolton School, Secunderabad
2015	T-Hub, Hyderabad	Bhavans Atmakuri Ramarao School, Jubilee Hills, Manthan International School, Tellapur

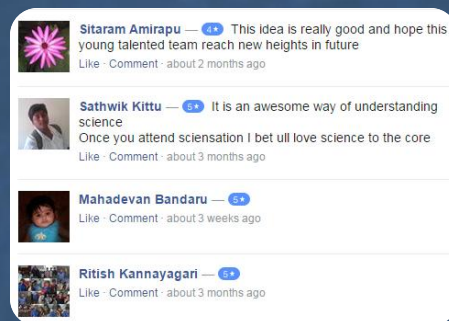
Sciensation's flagship programme is the **Sciensation quiz** which is a hybrid between a **debate** and a **quiz**



Testimonials

Sciensation Quizzes/ Lectures have received good feedback. Several students who hated science, start liking science and scientific research after our programmes.

Video testimonials on our website.



1,942 likes
32 visits

Sciensation Media

Rated 4.8/5

Design Thinking

- Originated out of Stanford University.
- Seeks creative and user-centric solutions.
- Taught extensively in ivy-league business schools.
- Introduces students to analysis and synthesis.
- Used for Product Development, especially Mobile App UI/UX design.



Re-Visioning



- **Gitanjali Senior School, Begumpet, Hyderabad** was the first school to initiate this concept, along with Sciensation.
- **Policy Research Conclave**: students studied policies and suggested changes, based on intensive data collection and research.
- Guests, especially Mr Sujiv Nair, CEO, TASK, felt that **college level projects** were done by **school students**.

Media Coverage



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School students show the way

RAHUL DEVULAPALLI

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Trust the younger generation to show a mirror image of the society and issues while coming up with innovative solutions. At the Policy Research Conclave 2016 titled “Re-visioning” held at Gitanjali Senior School, scores of school students showcased their models to address a range of problems including civic, alternative energy, quality education, and women safety, with the aid of technology. The day-long event saw the participation of students from 20 city schools.

The Difference



Cooking Contest



Recipe Contest

The second competition is lot more **intellectual**
and abstract!

Why?

Design Thinking is taught extensively at the world's best B-Schools.

Strong intellectual exercises can help in developing tomorrow's leaders, who understand research and strategy.



Research

- Students understand how to **pilot ideas**, scale successful ones and **evolve robust systems**.
- With change being faster than it ever has been, **the old rules may not work**.
- Students may have to learn to discover new rules, especially in areas which are at an **academically nascent stage**.

Workshop Themes



- **Pedagogy:** Redesigning our learning methodologies to relax anxiety and handle intimidating topics better.
- **Hackathon:** Ideating app/tech solutions to problems.
- **Society:** Solving problems of the society.
- **Futuristic Science Fair:** Showcasing latest science and technology.

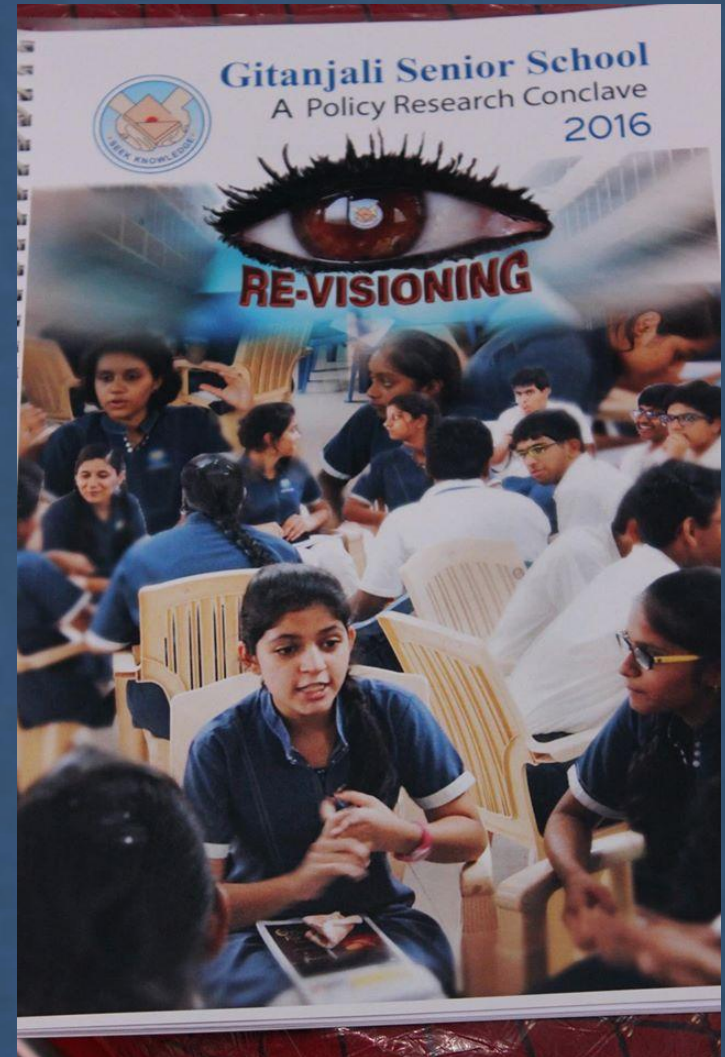
Pedagogy

- Students shall pick up topics which **intimidate/don't excite** them.
- They shall use design thinking methodologies to **evolve alternate ways** of understanding these concepts.
- This engages the students and gets them to **understand the topic**, while balancing breadth and depth.



Expo

- The workshop can also culminate in a futuristic expo, with research based projects.
- With technology getting smarter, it may be essential to have projects which are intellectually demanding.

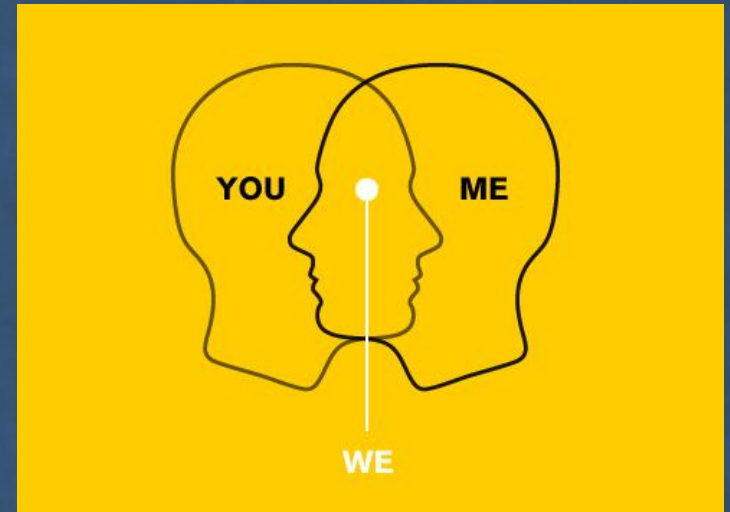


Design Thinking

- **Empathy:** Understanding the end-user.
- **Define:** Articulating the problem statement.
- **Needfinding:** What does the user want?
- **Benchmarking:** Who else is solving this?
- **Ideating:** How do we solve this?
- **Prototyping:** How do we test our ideas?
- **Choosing:** What is our best idea?
- **Implementing:** How do we do it on a large scale?
- **Learning:** Can we solve it better?

Empathy

- Who are the **stake-holders**?
- Whose lives would be affected by the **chosen problem**?
- Describe **their life**. What are their problems?
- It helps in developing **user-centric solutions**.



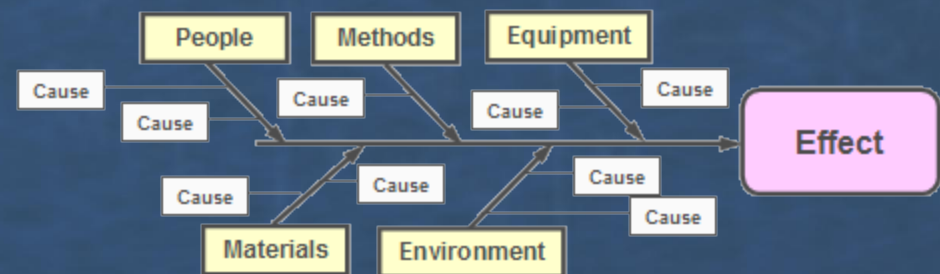
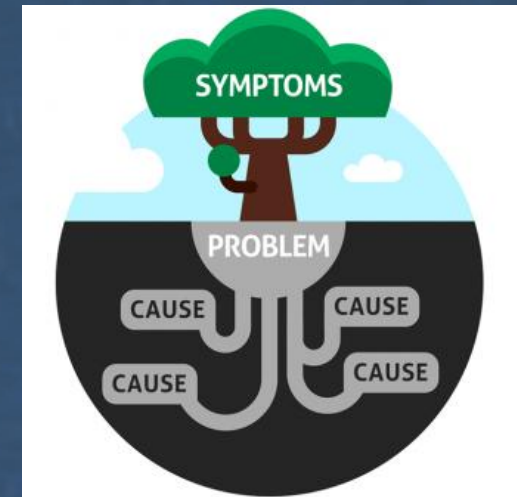
Define

- How can we **define** our problem statement using one single sentence?
- Do **words shape our thoughts?**
- Why is it important to use right of words?
- Why have **a one line problem statement? Focus?**



Need Finding

- What are the **root causes** of the problem?
- Constructing **question tree**.
- **Toyota 5Whys** technique.
- How do we know that our **diagnosis** is correct?



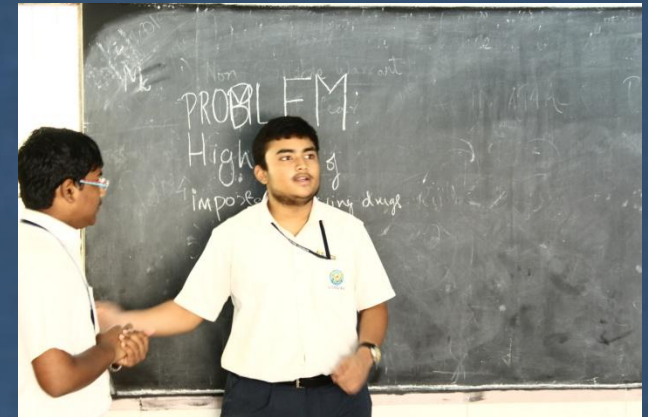
Benchmarking

- Are we **re-inventing the wheel**?
- **Who else** is solving this problem?
- **How** are they solving?
- How **effectively**?
- **Literature Review**?



Ideating

- Can we list at least **3 ideas to solve** each of the root causes?
- Can we **adapt well known solutions** to our context?
- Where can we **look for ideas**?



Prototyping

- How can we **pilot the ideas** on a small scale?
- How closely do our experiments replicate **natural circumstances?**
- Natural experiment or Controlled experiment?
- Surveys? **Implicit Association tests?**



Choosing

- Which idea **works the best?**
- Which idea is the most **feasible** one?
- **Benefit/Cost ratio** of the ideas.
- **Scalability** of the ideas.



Implementing

- How do we test our idea on a **large scale**?
- How do we break it down into **phases**?
- What kind of **resources/institutional support** do we need?



Learning

- Did we get the process right?
- Were we in a hurry?
- If we were to do this again, what would we change?
- Iterate fast, make mistakes fast, evolve fast!





Let's discuss, debate, discover!

Thank You!