Design Thinking
for schools

by Nazim Iqbal

Bismillah Hir Rehamnirarheem !

Madrassas of Fes

Madrassa name

Al-Mustansiriya madrasa in Baghdad

Al-Attaraine Madrassa

Madrassas of Fes

Ben Youssef Madrasa, Marakesh

Sher Dor Madrasa

Sher Dor Madrasa, Uzebegistan

Tilya-Kori Madrasah, Uzebegistan

Ulugh Beg Madrasah, Uzebegistan

You know, apart from the algebra, the trigonometry, the optics, the astronomy and the many other scientific advances

Demystifying Design Thinking

The Act of Design is What us Human

What is Design !

Design ≠ Art

Logic + Imagination

Design ≠ Graphics

Idea + value

Forming a concept or an idea to create things that add value to people’s lives

Design is not what see, design is how it works

Design + Thinking

Design Thinking is a user-centered approach to problem solving

Design thinking is both an ideology and an approach that seeks to solve complex problems in a user-centric way

Design thinking focuses on achieving practical results and solutions that are:

Feasible

Economically Viable

Desirable

Lota

Why Design Thinking Matters in Education

As Robots, Data, Machine Learning & Artificial Intelligence slowly overtakes systems & process - they all will require human emotions

Design being human emotion to all these

Design thinking focuses on achieving practical results and solutions that are:

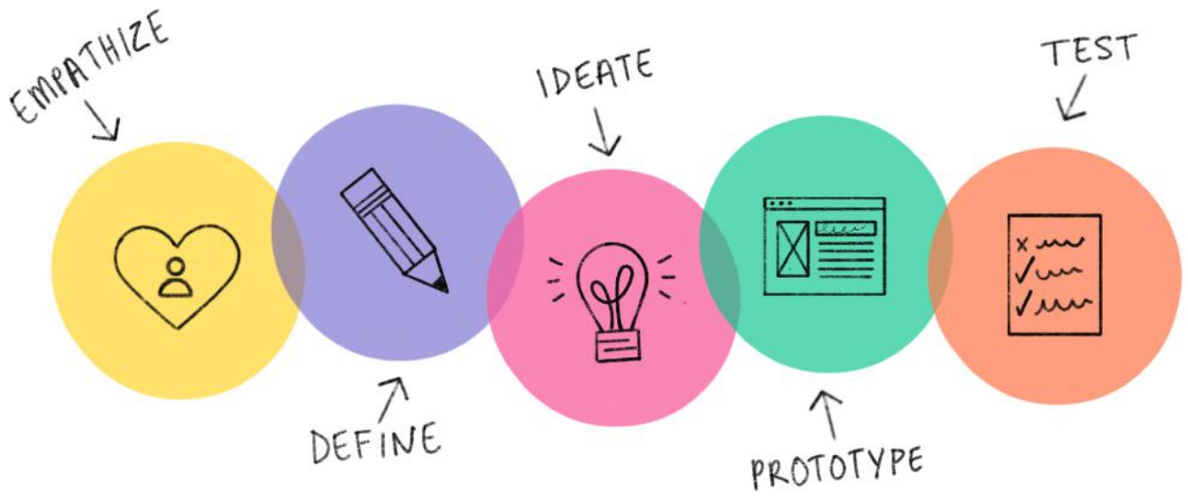
- Captures the mindsets and needs of the people you're creating for
- Paints a picture of the opportunities based on the needs of these people
- Leads you to innovative new solutions starting with quick, low-fidelity experiments that provide learning and gradually increase in fidelity

- **Empathy:** Understanding the needs of those you're designing for

- **Ideation: Generating a lot of ideas.** Brainstorming is one technique, but there are many others.

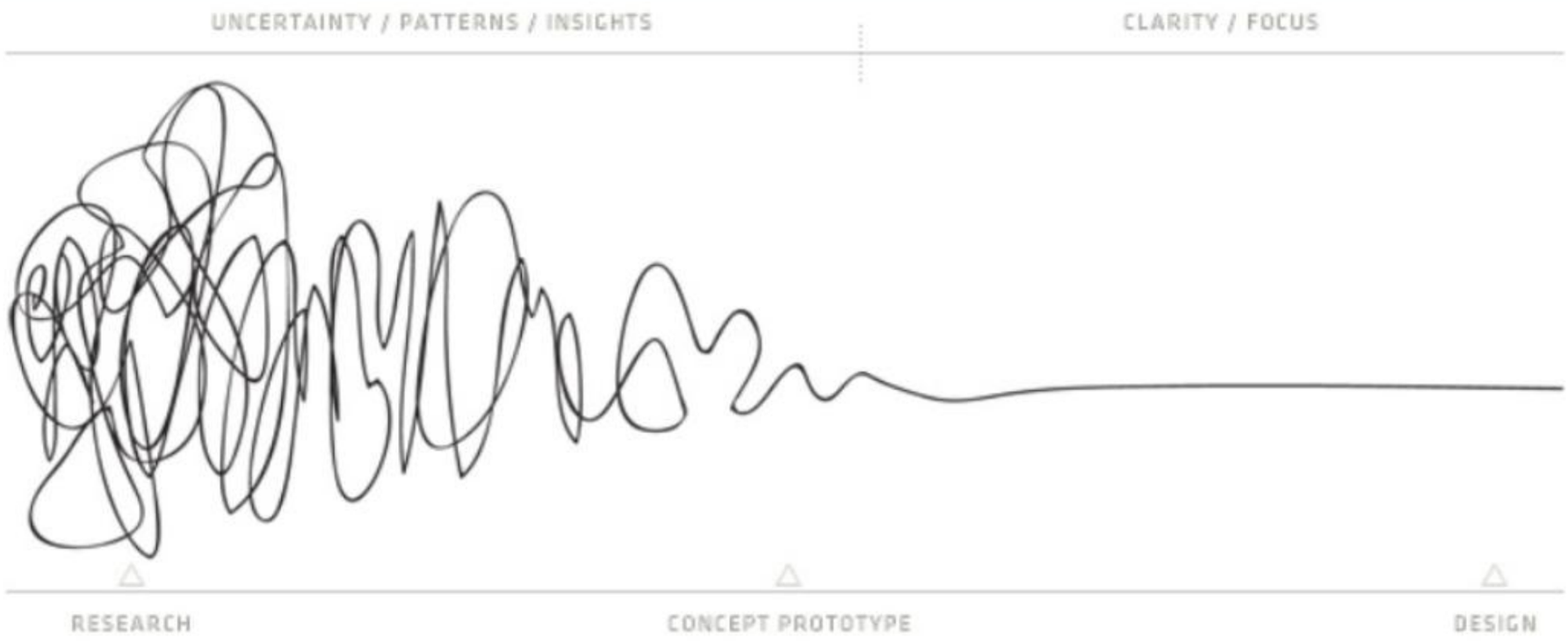
- **Experimentation:** Testing those ideas with prototyping.

The quick & short way to Design Thinking

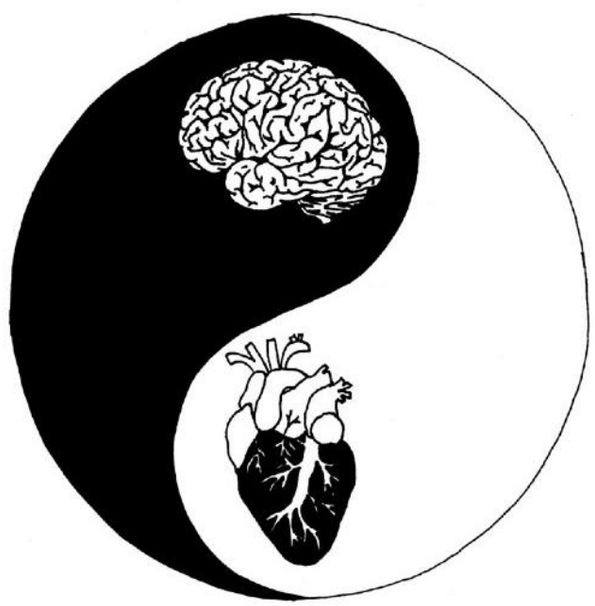


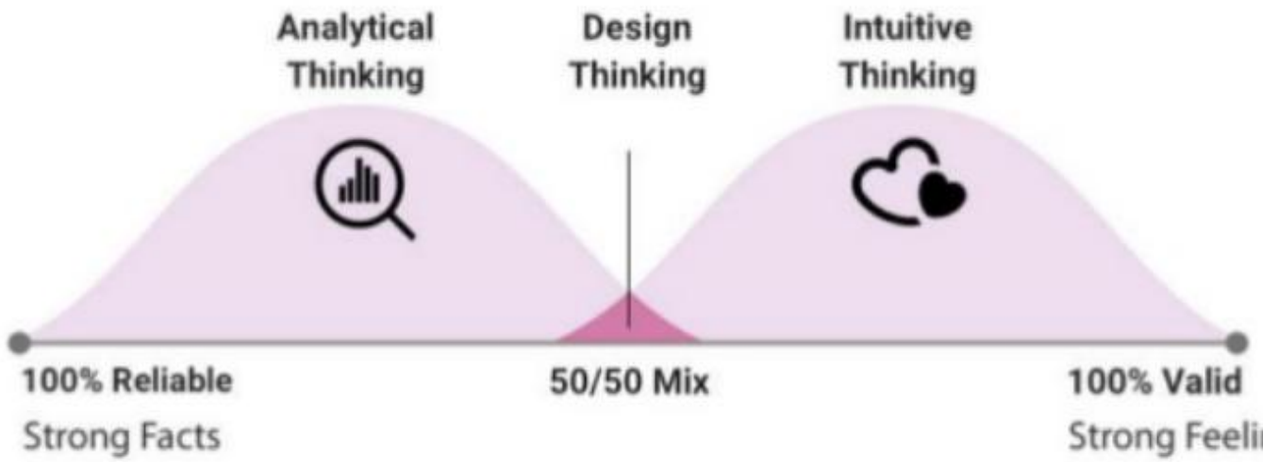
Benefits of Design Thinking

How design process Feels



Heart & Mind





Design Thinking is 50/50 Mix

Traditional Thinking	Design Thinking
Avoid Failures	Fail Fast
Sustaining Order	Taking Risk
Get it right in first time	Iterate
Certainty is key	Embrace Ambiguity
Thinking	Doing
Facts & Number	Storytelling
Logic	Emotional
Standardization	Humanitization

Design Thinking in Schools

Fraport

OUR CONCEPTS

David centered

Health Care

TEAM NAME

TEAM RESOURCES

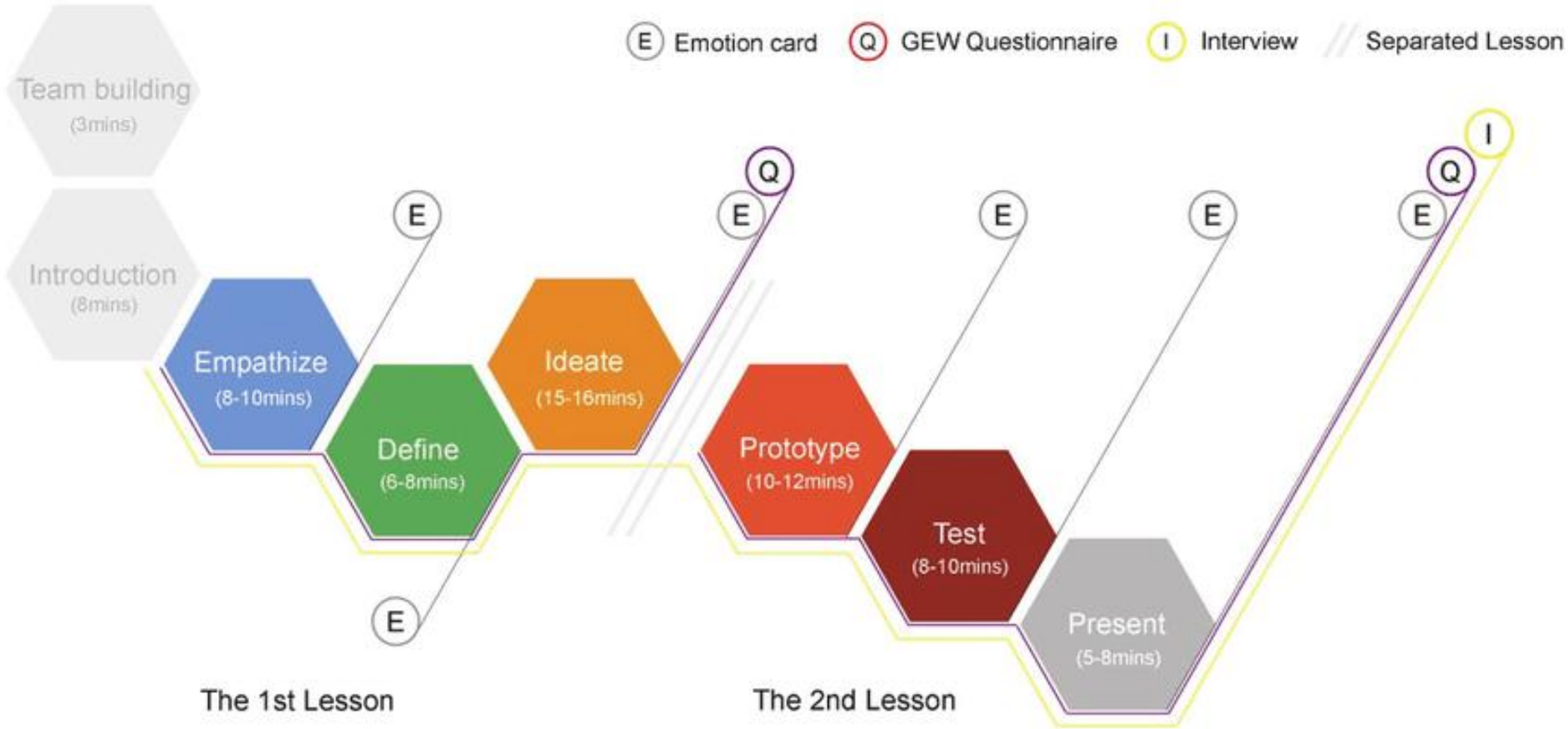
TEAM ISSUES

TEAM RULES

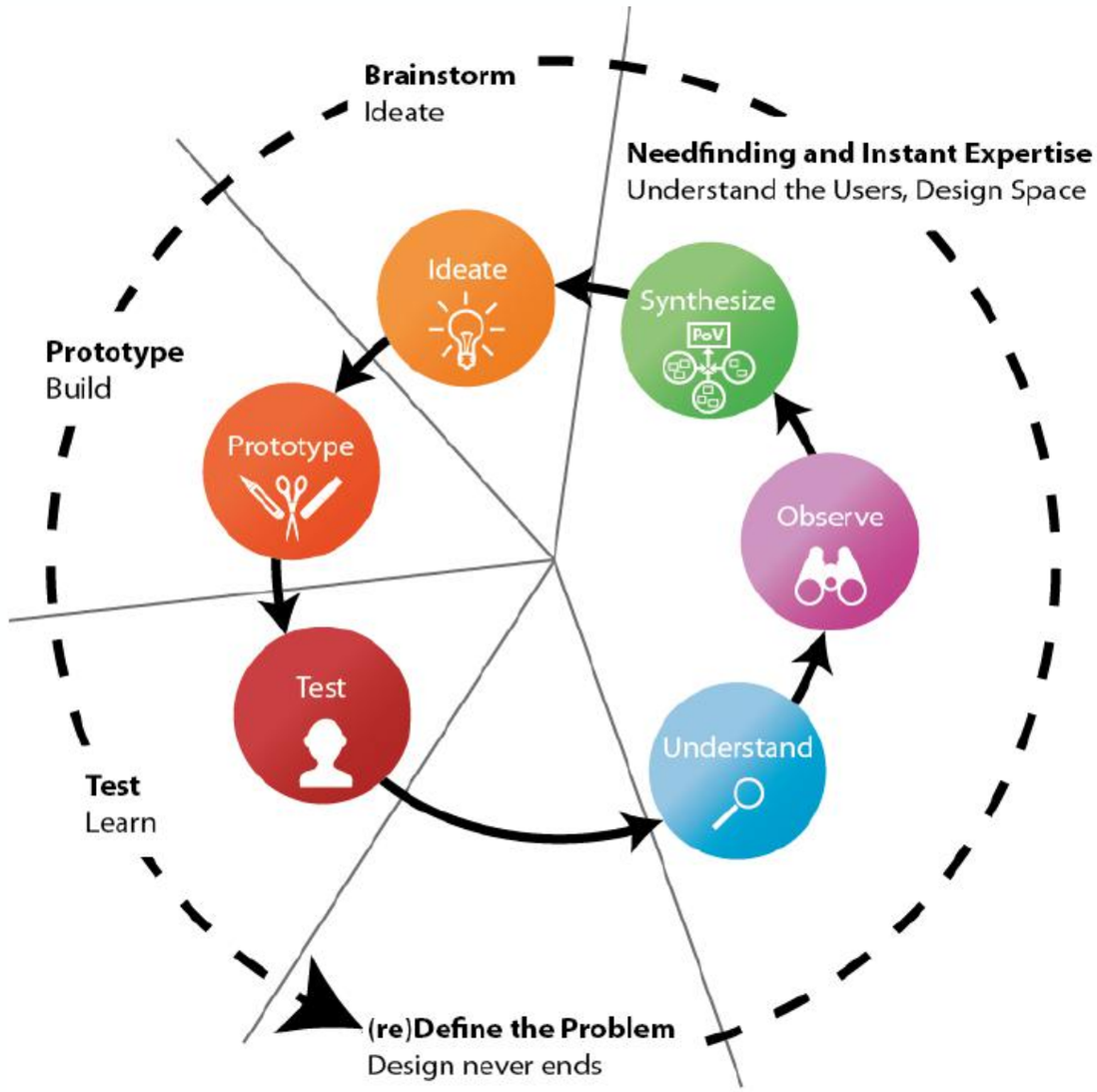
STAGES

TASKS

Empathy is the starting Point



Empathy is the starting Point



How Design Thinking can be encouraged in school

1. Open places to write
2. Openness culture
3. Encourage express
4. Focus on working together
5. Encourage interaction across classes
6. Design or dedicate a space for expression of ideas
7. Start focus on local problem
8. Give access to resources or dedicate some resources

Design Thinking Benefits for students

- Collaboration
- Team building
- Empathy
- Problem solving
- Planning
- Optimism

- Resource utilisation
- Frugal development
- Execution approach
- Quest for Innovation
- Learn from Failure
- Embrace ambiguity

Alhamdo'Lillah - MFERD is an excercise in design thinking

Have implemented thinking in our education

We have blinding followed system designed for other community

This is design thinking excercise

There are bound to be clashes and we will have a generation that is confused - as during school hours he is following a ideology which is different than the ideology at home

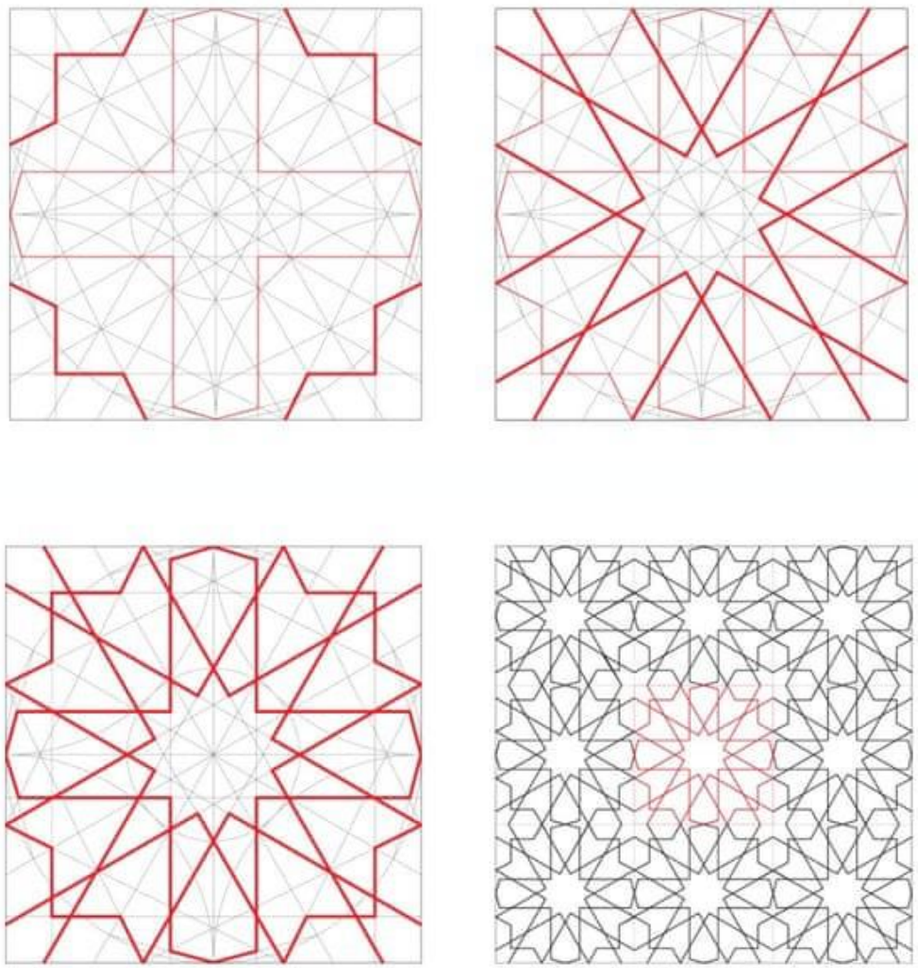
Because it is looking to design a education system for it end use taking into cognizance of the end users

Design in Islam & Islamic Culture

Ilm-e-Kitaab / Ilm Ladunee

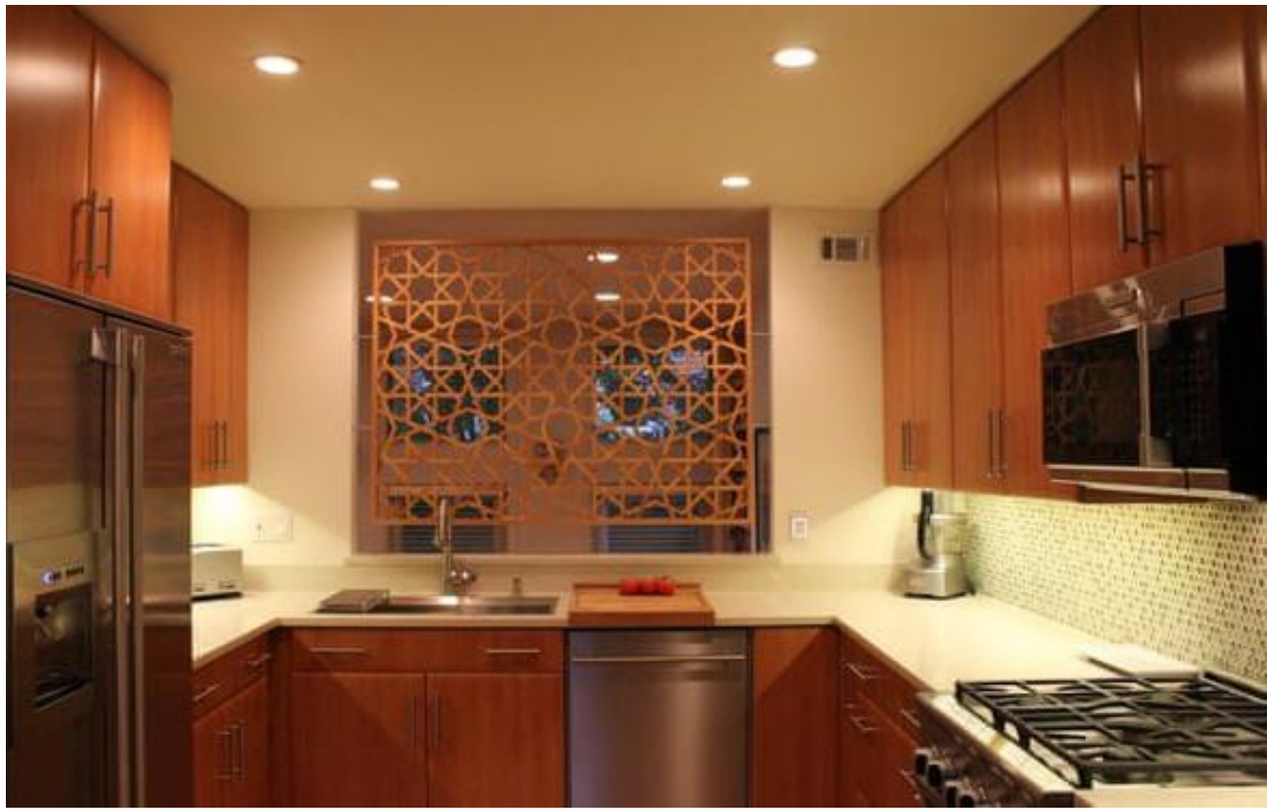
State of design intelligence reflect the state of a qaum

Islamic geometric design mixes elements of maths, art and history



Design is not just what it looks like and feels like. design is how it works - Steve Jobs

Whats does this reminds



Engages your mind

Dutchman Eric Broug - who lives in the north of England - has become a global ambassador for this design style. He is one of the most active practitioners of Islamic geometric design working today.

Better Aesthetics
Better Security

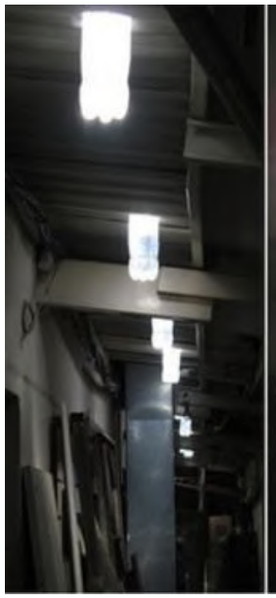
Design in leaning

Rakabi

Plate

Kitaabi Ilm v/s

Madrassa name



National Innovation Foundation
http://nif.org.in/

Atal Innovation Mission
http://nif.org.in/

Innovate India
https://innovate.mygov.in/innovateindia/

31 award-winning inventions by Indian school kids that will make our lives easier!
https://bit.ly/35lj0zt