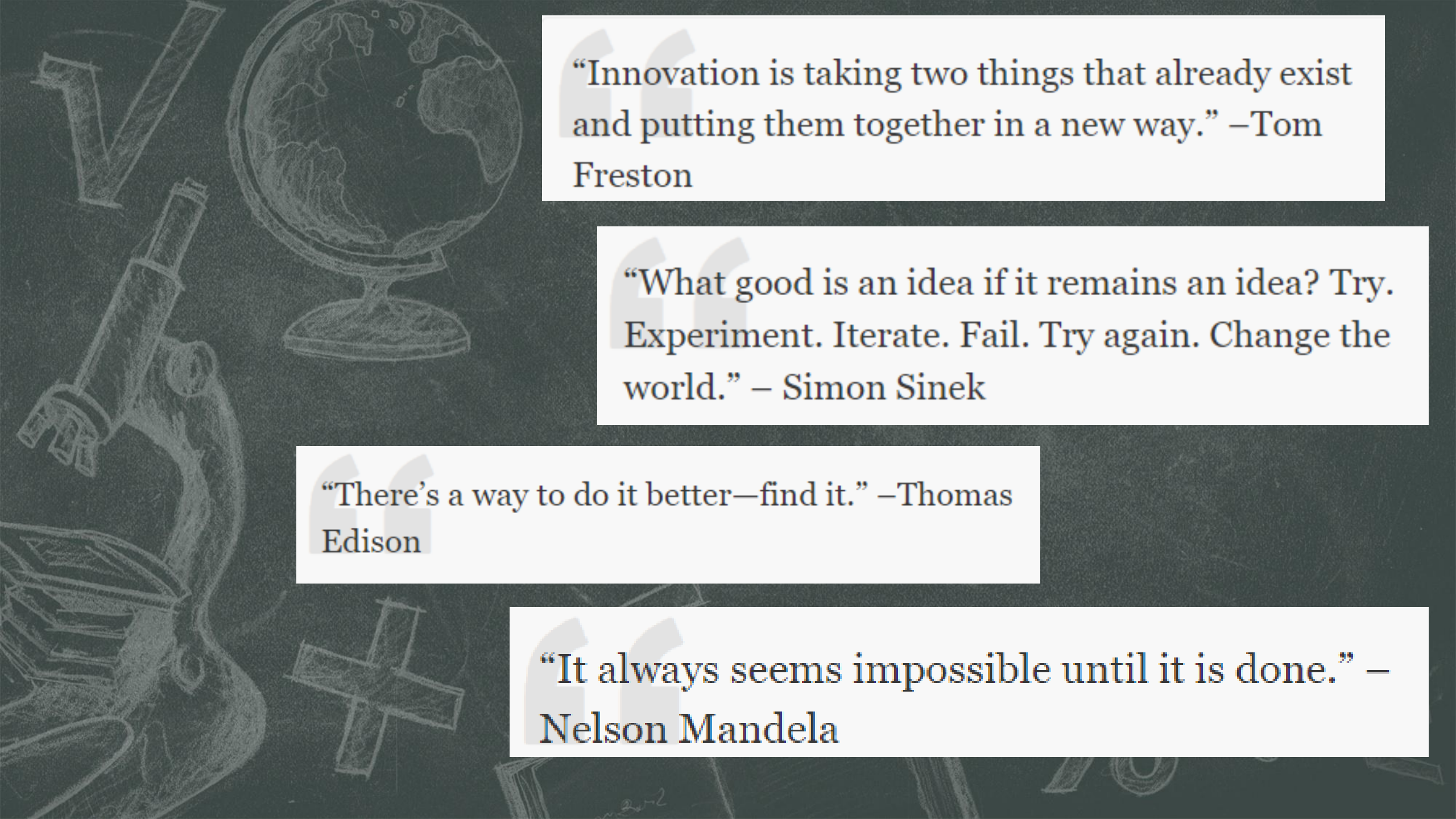
The background is a dark grey chalkboard with various white chalk sketches. On the left, there is a large drawing of a microscope. Above it is a globe on a stand. In the bottom left, there are sketches of books and a stack of papers. In the bottom right, there are sketches of a percentage sign, an exclamation mark, and a right-angle symbol. The main text is centered in the upper half of the image.

# Innovation and its role in education and potential impact on students' future

**Daljit Kaur**



“Innovation is taking two things that already exist and putting them together in a new way.” –Tom Freston

“What good is an idea if it remains an idea? Try. Experiment. Iterate. Fail. Try again. Change the world.” – Simon Sinek

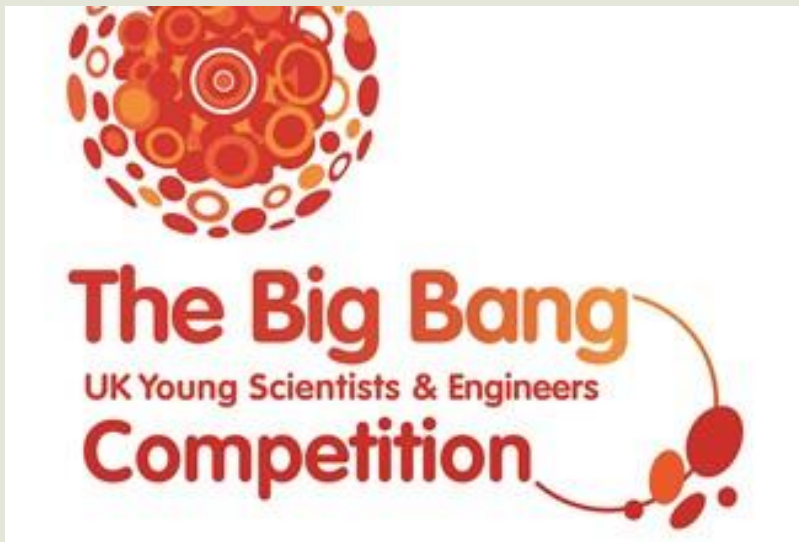
“There’s a way to do it better—find it.” –Thomas Edison

“It always seems impossible until it is done.” – Nelson Mandela

**“Necessity is the mother of invention...”**

“Technology in schools will no longer be micromanaged by Whitehall,” Gove said back in 2012. “By withdrawing the current ICT programme of study, we’re giving teachers freedom over what and how to teach.”

# Tech competitions & STEM



# Educator to facilitator 'The creative/tinker space'

## Hardware

- Raspberry Pi
- Arduino
- BBC Microbits
- Lego Mindstorms
- Drawing tablets
- VR
- 360 Camera
- Drones

## Software

- Languages
- Unity
- Video editing
- App Making
- Gaming
- Graphics

## Literature

- Hello World
- BBC Focus
- Science Magazines
- Flyers/brochures
- Books

## Infographics

- posters
- signage
- Display boards

# VLE landing page .....

## STEM Schemes

- CREST Awards
- IRIS
- RS Education Network
- STEM Awards
- Competitions

## Videos

- YouTube
- BBC Click
- TedX talks

## Links

- EPQ
- Nuffield
- Digital Explorer
- Digital Health & Science

## Misc.

- Biographies
- Articles to inspire
- Newspaper cuttings
- Engineering materials

# STEM Sunday

# STEM Projects @ Loughborough Schools Foundation

## Step 1 Desire

- Who's or what is driving the student?
- (Autumn)

## Step 2 Explore

- What areas do they enjoy?
- Future aspirations?
- (Autumn)

## Step 3 The problem

- An affiliation?
- Knowledge?
- (Autumn)

## Step 4 A solution

- Experts
- Sources of data and support
- (Spring)

## Step 5 Submission

- CREST award
- TeenTech
- Big Bang
- More ....
- (Spring)

The background is a dark grey chalkboard with various white chalk sketches. On the left, there is a globe showing continents. Above it are several books, one with 'LIFE' on the cover. To the right, there is a microscope. Other sketches include a percentage sign, arrows, and various geometric shapes.

**Some success .....**

@ LSF



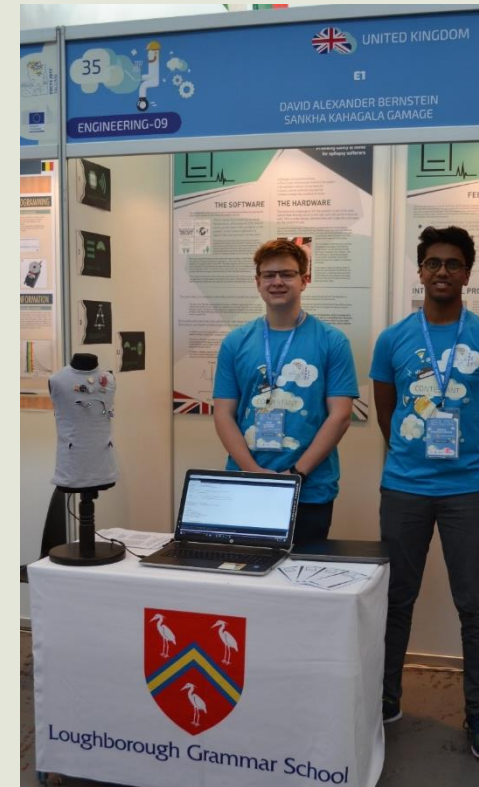
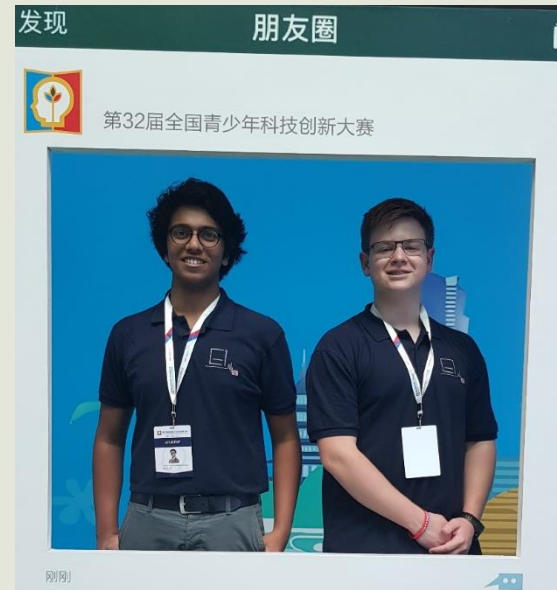
# How is success measured?

- Affect on **academic studies**
  - Numeracy; literacy; science; ICT
- **Soft skills**
  - Communication; public speaking; presentation; confidence; growth mind set
- **Project success**
  - Some recognition in the form of an award i.e. CREST Award
- **Future impact**
  - Internships; placements; university choices

## Project E.A.G.L.E.



# Project Medivest



# The formula continues to bring success

