



Quest for Discovery Series





Flint Regional Science & Engineering Fair

Inspiration, Invention, Innovation

Topic 1: What is Invention and Innovation?



What is an Inspiration?

Inspire:

Inspiration:



What is an Inspiration?

Inspire:

- To fill (someone) with the urge or ability to do (or feel) something, especially to do something creative.

Inspiration:



What is an Inspiration?

Inspire:

- To fill (someone) with the urge or ability to do (or feel) something, especially to do something creative.

Inspiration:

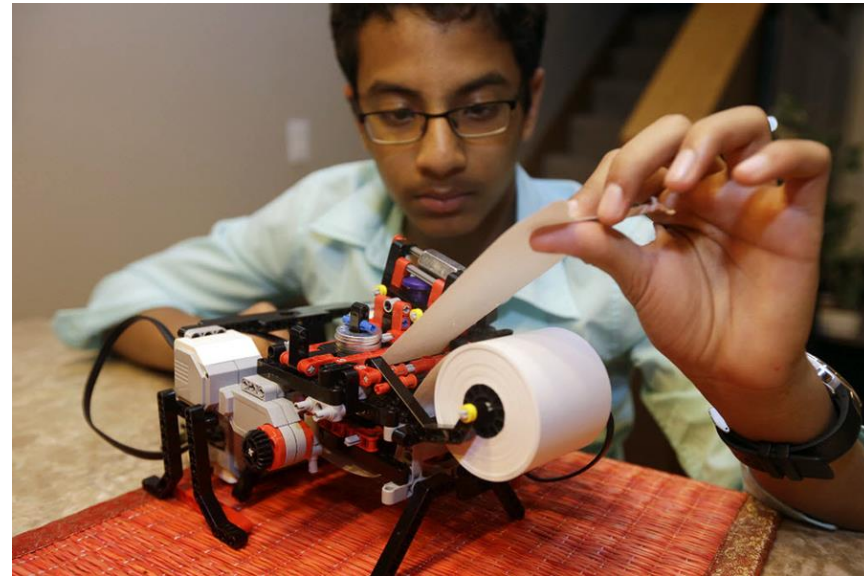
- The process of being mentally stimulated to do (or feel) something, especially to do something creative.



What is an Invention?

Invent:

Invention:

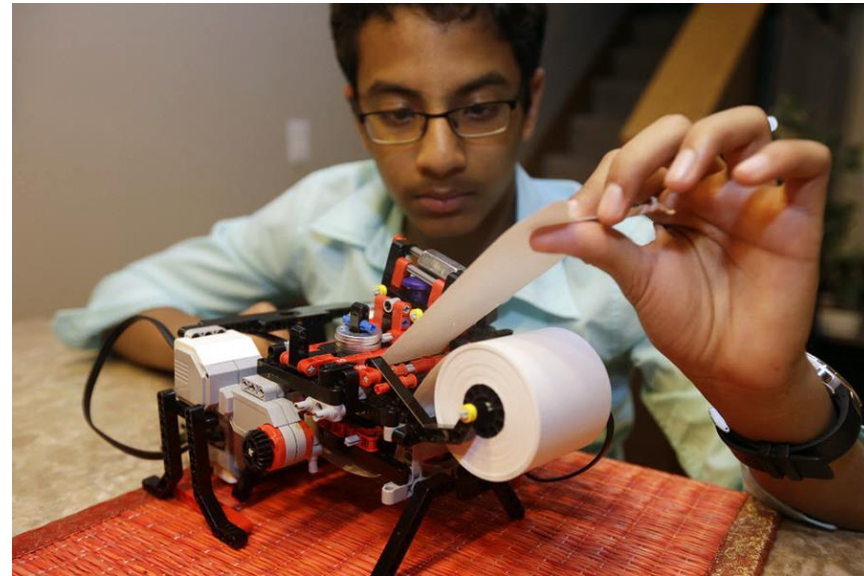


What is an Invention?

Invent:

- Create or design something that has not existed before.

Invention:



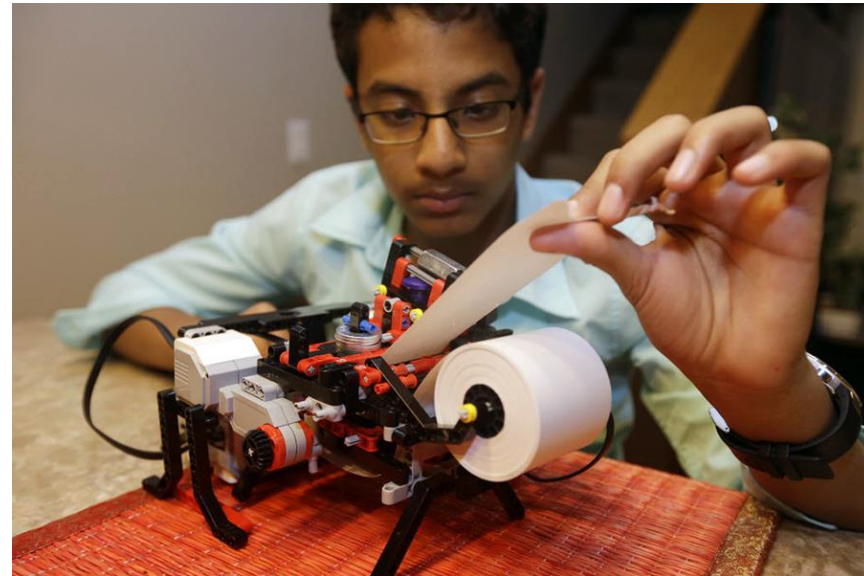
What is an Invention?

Invent:

- Create or design something that has not existed before.

Invention:

- The action of inventing something, typically a process or device.



What is an Innovation?

Innovate:

Innovation:



What is an Innovation?

Innovate:

- To make changes in something established, especially by introducing new methods, ideas, or products.

Innovation:



What is an Innovation?

Innovate:

- To make changes in something established, especially by introducing new methods, ideas, or products.

Innovation:

- The action or process of innovating.



NOTE: Innovation usually has a business focus – innovating new products or processes to increase profitability.

Invention and Innovation

Similarities

Differences

Invention and Innovation

Similarities

- Both required an inspiration
- Both create something new

Differences

- Invention tends to mean creating something that has never existed before.
- Innovation tends to mean to improve upon something that already exists..
- Innovation usually has a business aspect to it – making something new with the intent to sell it.

INVENTION NATION VIDEO

Inflatable Solar Lantern for Disaster Relief



Innovation Nation Video - Discussion

Inflatable Solar Lantern for Disaster Relief

- What need did it solve?
- What inspired the invention?
- How was (can) life be changed by it?
- Using this as the inspiration, what other uses could it have?
- What changes could be made to make it useful in other situations?

INVENTION NATION VIDEO

Earbuds that Enhance Speech in Loud Environments



Innovation Nation Video - Discussion

Earbuds that Enhance Speech in Loud Environments:

- What need did it solve?
- What inspired the invention?
- How was (can) life changed by it?
- Using this as the inspiration, what other uses could it have?
- What changes could be made to make it useful in other situations?

Inventions and Innovations Around You – Class Discussion

- State ONE invention or innovation that is near you.
- What need did it solve?
- How is your life affected by it?
- What solutions came before it?

To Do:

- View at least 4 *The Henry Ford's Invention Nation* – videos and completing the Inventions & Innovations Assignment worksheet.