



**G D GOENKA PUBLIC SCHOOL**

**Subject: Ev.Sc./ 5<sup>TH</sup>**

**Aspect: Supporting Content**

**Wednesday 1<sup>st</sup> September 2021)**

**Lesson no 19. Inventions and Discoveries**

**Learning Objective:** Students will learn about the discoveries and inventions.

**Skills:** Development of curiosity and imagination.

***Introduction***

Everything around us is a grand discovery. Be it a necessity, comfort, or luxury, they all came from different scientific discoveries and inventions that took place over a span of time. Starting from a small pin to a big ship, everything is just a mere invention for making the life of humans easier. Although both these terms discovery and invention indicate bringing of something new in the limelight or forefront, they differ at their grassroots.

***A discovery is recognizing something that already exists, for the first time, which nobody has found before,***

e.g. *how Christopher Columbus discovered the Americas.*

***An invention is creating something totally new with one's own ideas and development.***

Although an invention is completely new to the world, the physical material needed for its production already exists, innovated from the ideas and experiences of the individual. Thus, making inventions unique. The combination of available material has no limits,

e.g. *how Thomas Edison invented the light bulb.*

Time to time different inventions and discoveries has been done that made the life of humans easier.

We will now discuss few such inventions and discoveries that changed the human life for good.

### ***Steam Engine:***

- A steam engine is a heat engine that performs mechanical work using steam as its working fluid.
- The first working steam engine was invented by Thomas Newcomen in 1712. This engine was not very efficient.
- Then in 1794, James Watt worked on Newcomen's engine.
- In 1796, he created an improved version of the steam engine.
- Watts steam engine was used for transportation and in industries for doing mechanical work.

### ***Homework:***

Q 1. Who invented first efficient steam engine?