

INNOVATION

We embrace innovative teaching methods and encourage students to think outside the box. We nurture creativity and provide opportunities for students to express themselves in diverse ways.

INNOVATIVE ACTIVITIES

- 1.National Children Science Congress
- 2.Science Club
- 3.National Science Olympiad
4. ATL Marathan
- 5.INSPIRE Awards MANAK
- 6.Educational Trip
7. Rashtriya Bal Vaigyanik Pradarshani
8. Teri Green Olympiad

GLIMPSE OF SOME INNOVATIVE PROJECTS

PROJECT NO 1. INSUFFICIENT LIGHT DETECTOR

There are several kids who wear spectacles due to overuse of mobiles and studying in insufficient light zone but one question get arise that how do we know that what amount of light is good for our vision so we have made an insufficient light detector which basically tells us that what amount of light is good for our vision if you are sitting in insufficient light zone then this device will tell you that is this is sufficient light for studying so lets see what materials do we required to make this.

We need a Microbit, battery 9V , on off switch.

Circuit:- Microbit->battery9V->on of switch



Advantages

Studying in sufficient light can enhance productivity, reduce eye strain and improve focus ,leading to better comprehension and retention of information.In the long run, INSUFFICIENT LIGHT DETECTOR can contribute to academic success and personal development ,which are valuable assets in various aspects of life.

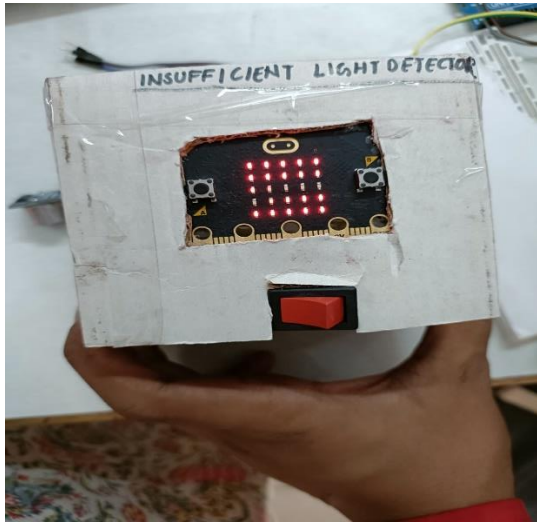


Image 1-showing insufficient light

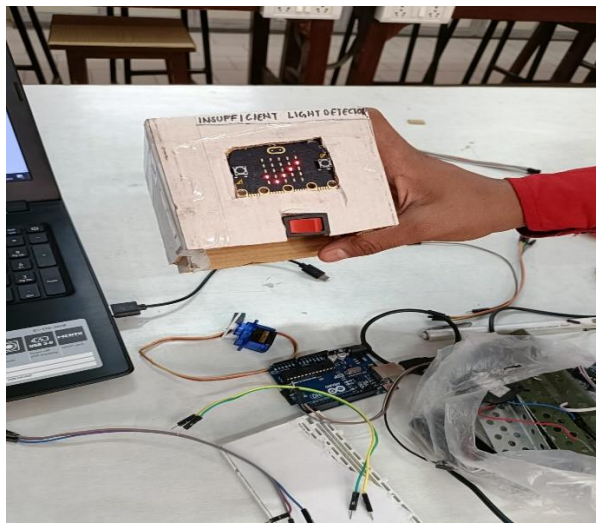


Image 2- showing sufficient light

Name of young innovators- 1 RUDRA PRATAP SINGH CLASS X

2 SHUBHAM CLASS X

3 ANSH CLASS X

4 RANJIT CLASS X

NAME OF GUIDE TEACHER- MRS. ANJALI VERMA ,PGT (PHY)

PROJECT -02 CARBON INK

Carbon ink is a type of ink that contains finely ground carbon particles suspended in a liquid medium. These particles give the ink its characteristic black colour and provide several unique properties. Here are some key features and uses of carbon ink:

1. **Permanent**: Carbon ink is typically permanent once it dries. It adheres well to various surfaces and is resistant to water, fading, and smudging. This permanence makes it suitable for writing documents, creating archival-quality artwork, or labeling items that require long-term durability.
2. **High Contrast**: The deep black color of carbon ink provides high contrast against most backgrounds, making it easy to read and ensuring that written or printed text stands out prominently.
3. **Versatile**: Carbon ink is versatile and can be used on a wide range of materials, including paper, cardboard, plastic, glass, metal, and fabric. It is commonly used in pens, markers, printer cartridges, and carbon paper.
4. **Archival Quality**: Due to its permanence and resistance to fading, carbon ink is often used in archival documents, such as legal or historical records, where longevity and preservation are essential.

5. **Non-toxic**: Carbon ink is generally non-toxic and safe for use in most applications. However, it's essential to check the manufacturer's specifications and any safety warnings before using it, especially in applications involving prolonged exposure or ingestion.

6. **Carbon Copying**: Carbon ink is commonly used in carbon copy paper (or carbonless copy paper) to create duplicate or triplicate copies of handwritten or typed documents. When pressure is applied to the paper, the carbon ink transfers from one sheet to another, creating identical copies without the need for carbon paper.

7. **Artistic Applications**: Artists often use carbon ink for drawing, sketching, and illustration due to its rich black color, smooth flow, and ability to create fine lines and details.

Overall, carbon ink offers durability, versatility, and high performance across various applications, making it a popular choice for writing, printing, copying, and artistic endeavors.



Pen Plastic Waste



Carbon waste for black pen

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IMAGES OF SOME INNOVATIVE ACTIVITIES-

