

The Bishop's Co-Ed School, Undri REPORT ON THE MIDDLE SCHOOL EXPERIENTIAL LEARNING ACTIVITY

CLASS:VIII

"Switching to a Brighter Future: Power Supply Transfer Solutions"

Experiential Learning is the process of learning by doing. By engaging students in hands-on experiences and reflection, they are better able to connect theories and knowledge learned in the classroom to real-world situations. An interesting session of experiential activity was conducted by Experiential Learning Enterprises (ELE Activities) on 9th December, 2023 at THE BISHOP'S CO-ED SCHOOL, UNDRI for the students of Class 8. The Director Mr. Suyash Dake, conducted the session in the music room. The Science experimental model Kit of Wireless Power Transfer was distributed to the students of class 8 and a demonstration was given. Under the guidance of the resource person, the students were able to understand the working of it. As the session involved a lot of interaction and participation, every student found it very interesting and enjoyable. These activities aim to develop "higher order thinking skills" among students through the route of hands-on science learning. The students of class 8 participated enthusiastically and enjoyed the activity thoroughly.

Wireless power transfer (WPT), also known as wireless power

electrical energy without wires as a physical link. It relies on electromagnetic fields to transmit power between a transmitter and a receiver, eliminating the need for wires and batteries and increasing the mobility, convenience, and safety of electronic devices. WPT can be useful for powering electrical devices where interconnecting wires are inconvenient, hazardous or not possible. WPT techniques mainly fall into two categories: near-field and far field. In near-field or non-radiative techniques, power is transferred over short distances by magnetic induction; in far-field techniques, power is transmitted over longer distances using electromagnetic waves such as radio waves, microwaves, infrared or visible light waves. Some advantages of wireless power transfer include:

- Increased mobility and convenience for users, as they do not need to plug devices into power outlets.
- Reduced risk of accidents and hazards associated with traditional wired power transmission systems.
- Potential for long-range power transmission, such as across rooms or even longer distances.

Last but not the least 'Bagless Day Activity' was the icing on the cake for the young enthusiastic minds. They enjoyed themselves immensely and returned home with numerous memories of the day.



Report by: Mrs. Lovely Selvin





Curious students





Explanation in progress





Science is about learning and creating





Work in progress





Future scientists working





Aspire to inspire