



PRAGATI PUBLIC SCHOOL

ATAL TINKERING LAB

NEWSLETTER

(JANUARY-MARCH 2020)

“The best way to escape from a problem is to solve it.”

-Alan Saporta

Solving a problem means finding a way out of a difficulty, a way around an obstacle, attaining an aim which was not immediately attainable. Solving problems is the specific achievement of intelligence, and intelligence is the specific gift of mankind: solving problems can be regarded as the most characteristically human activity.... It is a practical art, like swimming, or skiing, or playing the piano: you learn it only by imitation and practice.... If you wish to learn swimming you have to go into the water, and if you wish to become a problem solver you have to solve problems.

We believe in motivating our students to face real life challenges with confidence and act as a responsible member of the society by analyzing and suggesting possible innovative solutions to these problems.

The academic year 2019-20 has been fun-filled with excitement and creative learning for our students which also presented an insight into the aspirations of our young budding scientists. With this, we would like to release our final volume of the newsletter for the session 2019-20.

A glimpse into the projects made by the students of class VI-VIII providing an eco-friendly solution to the existing problems.

A **“SMOKE ABSORBER”** –to absorb smoke and poisonous gases from the environment. This device can be used in areas where factories are located to create a pollution-free surrounding for the people living in such a habitat.



A **VACUUM CLEANER**-an easy to make and use personal vacuum cleaner to keep our surroundings free from dirt.



A **ROOM HEATER**- an eco-friendly room heater which absorbs smog in winters and produces harmless heat. It is economical and best suited for areas with extreme winters.



“LOCATION LOCATOR”- A satellite based on GPS module to detect location of a person in the nearby vicinity.



“GLOBAL WARMING”- a presentation of an article on global warming, analysing its impact and suggesting solutions to overcome the problem.



“SMART CITY”- an idea of smart city analyzing the effects of chemical industry on the neighbouring surroundings and ways to overcome the same.



“EDUCATION TEMPLE”- A class VI expressing her concerns and analyzing the issues prevalent in the education system. At the same time, emphasizing the need of education and roles and responsibilities of the various stakeholders towards education sector that can bridge the gap between the existing disparities.



“SOLAR POWER” – a solar panelled based electricity generator for remote areas facing the problem of electricity shortage.



“ANEMOMETER”- a self-made instrument which determines wind speed and pressure to study weather patterns at a particular area. It is economical and can be used in areas which lack relevant resources.



Our students explored aeromodelling kit which involved designing, development and flying of small air vehicles. They learnt about balsa wood and interesting ways to learn, apply and understand science and engineering principles.



KEEP TINKERING!!!