

A TALK WITH WEATHER PREDICTING GADGETS

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Modern Senior Secondary School, Patiala
organized an educational visit to **The Doppler**

round in the upper air lab, where meteorological
data (required for forecasting purpose) of upper

Weather Radar Station of India Meteorological Department Patiala for grade 12 students on July 18, 2022. A total of **25 students** participated in the tour which was organised to fulfil the practical aspects of electromagnetic waves, the electronic instruments, the electronic components which are taught in their physics class and also to get them acquainted with state of an art of weather forecasting.

The visit started with explaining the usefulness of electromagnetic waves in radar system, various units of radar such as transmitter, receiver, waveguide, antenna, oscillator and generation of various products from radar which are required in weather forecasting. The students then took a

atmosphere 25 to 30 km approximately is collected by releasing an electronic instrument (called radio sonde) equipped with meteorological sensors. This is released with the help of hydrogen filled balloon.

The next was surface observatory where surface meteorological parameters (required for forecasting) such as pressure, humidity, maximum temperature/ minimum temperature, wind speed and wind direction are recorded. The purpose of instruments like barometer, hair hygograph, thermograph, anemometer and wind vane was also explained to the students.

The visit was highly informative and interesting. It will remain fresh in the minds of the students for long.

