

SUBJECT: MATHEMATICS

CLASS: X

CHAPTER 13: SURFACE AREA AND VOLUME

Curiosity Questions:

The rain water from 22m x 20m roof drains into a cylindrical vessel of diameter 2 m and height 3.5 m. If the rain water collected from the roof fills $\frac{4}{5}$ th of the cylindrical vessel, then how will you calculate the rainfall in cm?

Answer Guide:

- How can you fold a rectangular sheet of paper to form a cylinder?
- Can you relate a test tube in the science laboratory with combination of solids?
- What is the relation between volume of a cylinder and volume of a cone?

Experiential Learning

a) Surface areas and volumes of two solids combined can be clearly understood with the help of the given video link

<https://www.youtube.com/watch?v=1q-6XYNm24E>

b) Concept of conversion of one solid to another is demonstrated with the help of the given video link.

https://www.youtube.com/watch?v=ZlIu_HgdjMU