

# MATHS SCHOLASTIC ACTIVITIES

“For the things we have to learn before we can do them, we learn by doing them.”  
-Aristotle

Learning by doing is the idea where we learn more when we actually “do” something.

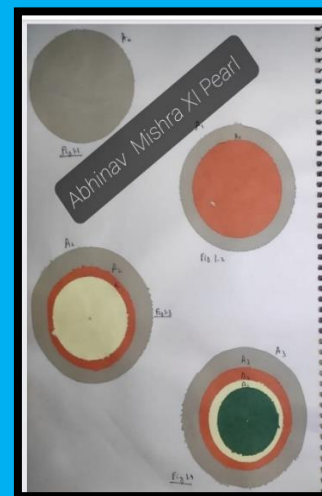
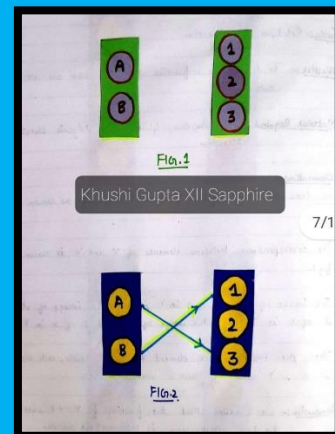
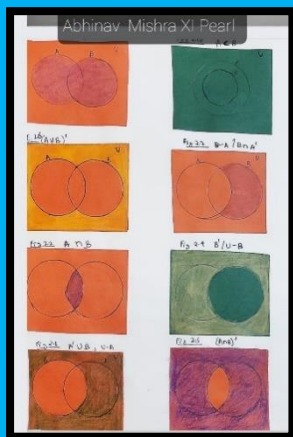
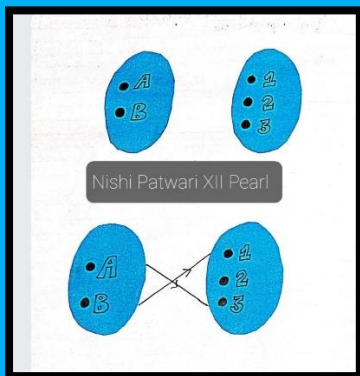
Aiming at the same, interesting maths activities were conducted from classes IX-XII in the month of August, which gave students hands on experience of various mathematical concepts and broke the monotony and phobia of the subject.

**Class 9** Design any piece of Jewellery using 2D or 3D mathematical shapes.

**Class 10** Monuments of Sikkim and different geometric principles used in them.

**Class 11** Show the sets , type of sets , relations ,functions , Cartesian product by using geometrical shapes .

**Class 12** Type of functions by venn diagram



**RECTANGLE**



Dhruv Paul X Ruby

**PARALLEL LINES**



**Introduction**  
The Pemayangtse Monastery is a Buddhist monastery in Pemayangtse, near Pelling, in the northeastern Indian state of Sikkim, located 1.7 km west of Gangtok. Formerly, Sikkim was founded by Lama Tsongkhapa in 1547. It is one of the oldest and premier monasteries of Sikkim, also the traditional seat of the Sikkim Chogyal.

**Stairs, Roof and The Garden**  
Here the stairs in the front of the entry gate are in the shape of **CUBOID**. We also see that the small garden in the front of the monastery consists of **TWO CIRCLES** cutouts of grass. And even the roof of the monastery here is in the shape of a **TRAPEZIUM**.

**GEOMETRIC PRINCIPLES**  
Here we see that the upper part of the monastery is in the shape of a **RECTANGLE**, which is a like to curved roads from both the opposite sides.  
Here also we see that the side on which the flag is hoisted is in the shape of a **CYLINDER**. Also the top of the entry of the gate is cylindrical in shape.

**OVAL, CIRCLE, CUBOID...**  
Here we see that in the design on the top of the entry gate there is an **OVAL**. The shape in the outer part and a **CIRCLE** in the inner part which also contains one more **SMALLER CIRCLE** along with **LINES** joining them.  
Next, we see that the whole monastery is built in the shape of a **CUBOID**.

**Pemayangtse Monastery**

**ASADRA X PEGAL**

**Art Integrated Project in Math**



**Earrings**  
Shapes used: **Circles, Triangles**

**Necklace**  
Shapes used: **Circles**

**Saksham 9A 32**

**ART INTEGRATED PROJECT**



**Kamakshi Sharma**  
9th D sapphire roll no 14

Shapes used: **Rectangles, Triangles, Squares, Circles, Diamonds, Small Squares**

**Khushboo Ambardar**

