



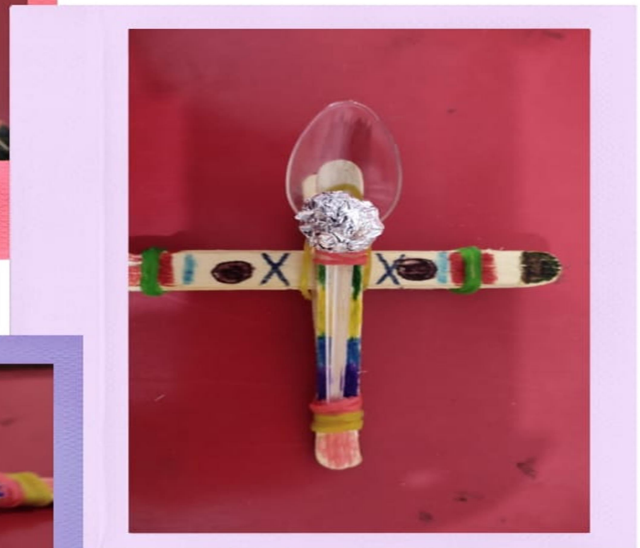
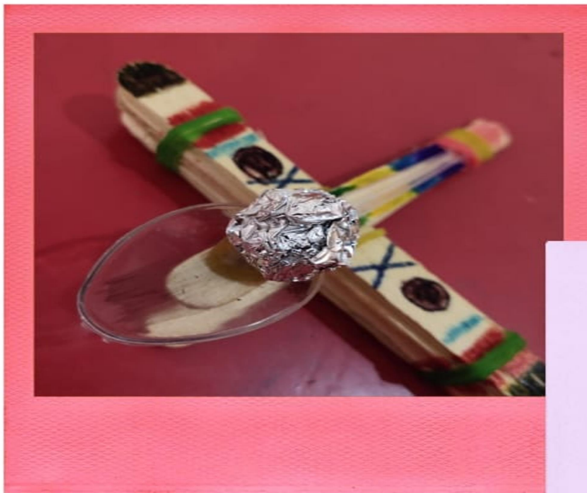
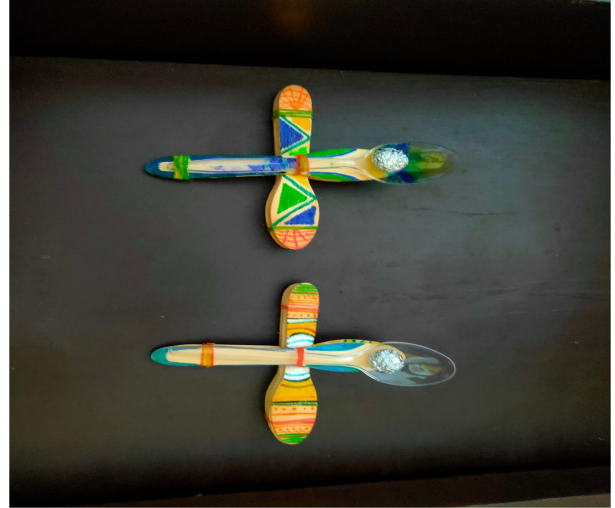
# TINKERING CLUB (Primary)

## CLASS: V

### REPORT FOR THE PERIOD – AUGUST 2021

S. NO.	DATE/ MONTH	OBJECTIVE	ACTIVITY	LEARNING OUTCOME
01.	07 August 2021	Simple Machines  Students will be able to identify simple machines that they are using in their daily routine like scissors, forks, inclined plane etc.	<b>Making catapult</b>  Students made a simple machine catapult by using ice cream sticks ,rubber bands and small paper and they have seen how it is working.	The learners were able to understand the concept of a simple machine and the principle of lever, fulcrum and effort.  Learners will be able to know the different types of simple machines like Lever, wheel and axle, inclined plane, wedge,pulley and screw.
02.	21 August 2021	To make learners cognizant about the concept of flight, flight adaptations in birds and how it inspires the designs and functioning of aircrafts.	<b>Taking Flight !</b>  Students created paper planes of different types via origami technique and compared factors like time of flight, distance travelled by the planes etc.	The learners were able to understand the different forces that act upon a body during flight. They discussed different features of birds that enable them to take flight.  The students were also able to relate the body structure of birds with aircraft design and the phenomena that are responsible for flight.

**GLIMPSES OF THE ACTIVITIES UNDERTAKEN BY  
THE STUDENTS DURING THE PERIOD AUGUST 2021 :**



**Catapults made by the students.**

Go to [www.menti.com](http://www.menti.com) and use the code 7005 7096

WHAT DO YOU THINK ARE SOME FEATURES THAT MAY HELP BIRDS FLY?

BUT IS THAT EVEN POSSIBLE? IF YES, HOW?

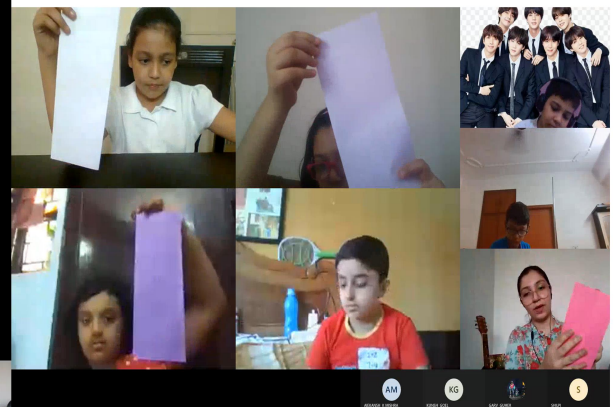
WHAT GIVES BIRDS THE ABILITY TO FLY?

words and tail feathers  
hollow bones  
the weight  
wings  
lightens  
the wings  
light in weight  
light  
their hollow body posture

lift  
thrust ← ● → drag  
gravity ↓

- light bones - a bird's bones are basically hollow with air sacs and thin, tiny cross pieces to make bones stronger - this reduces the force of weight
- a rigid skeleton to provide firm attachments for powerful flight muscles - this helps with the force of thrust
- a streamlined body - this helps reduce the force of drag
- wings - these enable the force of lift.

Non-Streamline Shape  
Streamline Shape



**Young Tinker-ers exploring the principles of flight !**

**Teachers In-charge: Ms. Yasha Sharma and Ms. Shilpi Singh**