

Lab Tots Report Card



Session Venue & Time: Hartsfield JMI - KS2

Lab Tots Term: Spring Term 2019

Instructor: Sophia Mitchell

Session Dates: 8th January 2019

What We Did & What We Learnt:

Creative Construction 1

- We looked at shapes from the circle right up to the 10-sided Decagon
- We matched numbers to the sides of 2D shapes and discussed the angles and lines, reinforcing number and shape recognition.
- We looked at turning flat (2D) shapes into fat (3D) shapes
- We discussed the concept of platonic solids - where all the faces on the 3D shape are the same (sphere / tetrahedron / cube)
- We looked at patterns in naming the shapes and used phonics to sound out pentagon through to decagon
- We thought about how shapes occur in nature (planets being spheres, honeycomb hexagons), linking this back to previous sessions
- We experimented with 3D column shapes and strength
 - We made cylinders, triangular prisms & cuboids out of sheets of coloured paper
 - We predicted which columns we thought would be the strongest
 - We thought about why we thought this
 - We came up with ideas on how we could test which was the strongest column
 - We tested the columns we made using platforms and wooden blocks
 - We counted the number of blocks it took to collapse and destroy the column
 - We wrote down the number
 - We did the 'rule of 3' and introduced the concept of reproducibility
 - We worked out which column was the strongest and why
- We used sweeties and cocktail sticks to make our own 3D shapes, testing our dexterity, problem solving and self control (not eating the sweets!)
- We made giant structures using marshmallows & kebab skewers