

Maths Afterschool Club

Sessions Overview

Through a series of entertaining and educational workshops, based on practical hands-on experiences, this course is designed to give an appreciation of how maths contributes to everyday applications, through the medium of photography/imaging and for children to gain an insight into a range of related careers.

Breakdown of sessions for the maths club workshops:

Session 1: Nature study

- Fragments
- Abstraction
- Patterns
- Texture

Learning opportunities include:

- Working in a small group to produce an 'abstraction' piece, using calculations and perimeters as part of a small project
- Using nature as part of a second mini session project to produce a school pictorial calendar (with the best images from each student included)

Session 2: Space and measures

- Number shape
- Space and measures
- Handling data

- Area and perimeter

Learning opportunities within the subject of photography and visual arts include:

- Leading lines
- Offset lines
- Inset lines
- Two point and three point perspective

Session 3: Counting, partitioning and calculating

- Developing mental and written calculation methods
- Identifying patterns, relationships and properties of numbers
- Develop pupils understanding of measure by looking closely at conversions and different scales
- 3D shapes
- Symmetry
- Number recognition

Learning opportunities include:

- Blocking In
- Harmonious colours
- Visual communication project, with pupils working in groups of three's

Session 4: Area and perimeter

- Angles
- Length
- Number sequences
- Place value

Learning opportunities include:

- Ways we can tell a story through rotation, symmetry and space
- Depth of perspective
- Depth of field (using maths equations)
- Depth of focus (using maths equations)

Session 5: Rounding and estimation

- Counting, partitioning and calculating
- Securing number facts
- Understanding shape
- Handling data and measures

Learning opportunities include:

- Producing both a 3D and 2D visual project
- Vintage photography
- Camera shot lists (using maths equations)

Session 6: Shape and space, measures

- Calculating, measuring and understanding shape
- Securing number facts, relationships and calculating
- Patterns in shapes and in nature
- Perimeters and Angles

Learning opportunities include:

- Creating a 3D tangible product, using perimeters and angles
- Measuring shapes and understanding the effect they have on visual imaging
- Architectural photography