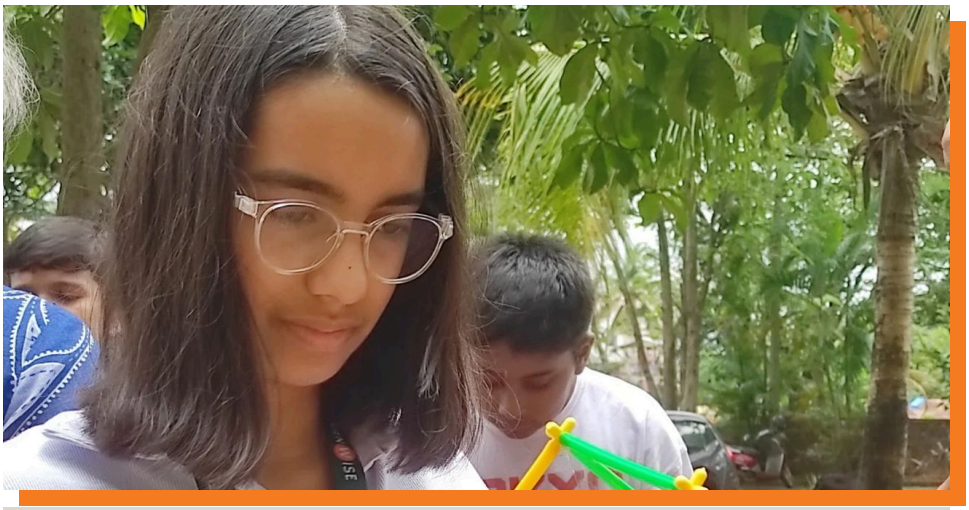
03

MATHS, NATURE & PLAY

The Pleasure of Finding Things Out: Puzzles, Patterns and Play

Hunt the campus for hidden patterns, crack puzzles with more than one way in, and find out which patterns are always true.

Nature shows you patterns; puzzles are where you prove one. Children count the spirals in a flower head and find the symmetry in leaves; take on odd-and-even, number-pattern and logic puzzles in teams, building to a first taste of proof; and play theatre games where the patterns get acted out and remembered. Every game rewards a bold try over a safe answer, and the room is up and moving most of the day.



Taught by Ramgopal, Educator in alternative learning spaces for 18 years · Practising psychotherapist.

Facilitator	Ramgopal (May); June mentor to be announced
Duration	1 week
Teaching hours	30
Grade	Grades 6–7 (as of 2027–28)

The plan

01 Hunt

The campus becomes a field lab for spirals, symmetry and repeating shapes.

- Pattern hunt outdoors
- Counting spirals
- Symmetry in leaves
- Patterns in what we built

02 Crack and prove

Odd and even, number patterns and logic puzzles with more than one route, building to a first proof.

- Puzzles with many paths
- Odd and even
- Is it always true?
- Explaining your thinking

03 Show

Theatre games and movement that act out the patterns, ending in a puzzle show.

- Theatre games
- Rhythm and movement
- Acting out a pattern
- The puzzle show

How does this course help your child?

Innovative pedagogy

Puzzles, the outdoors and theatre games each come at the same habit, trying, getting it wrong and trying again, from a different direction.

Academic acceleration

A first taste of proof: showing something is always true, not just true the ten times you tried it.

Cognitive skillsets

- Close observation
- Flexible problem-solving
- Explaining your thinking
- Confidence to try

Peer networks

Puzzles are solved in teams, and at the show each child chooses a role, so no one is on stage alone.

Questions to wrestle with

- **Add any two odd numbers. What do you notice, and can you show it will always happen?**
- **What patterns are hiding in a single leaf?**
- **Is there a puzzle where the wrong answer teaches you more than the right one?**







It ends with

At the open day, each team sets the audience a puzzle built on a pattern it proved.

May program · 16–29 May 2027 · MAHE Manipal

June program · 20 June–3 July 2027 · MAHE Bengaluru

Like every GSP course: three hours each morning, hands-on afternoons, a real artifact at the closing showcase, and one residential coach or teaching assistant for every five students.

Prerequisites: None.

Apply and read more: summer.genwise.in · +91 81238 77635

Read the course online

summer.genwise.in/summer-program/courses/pleasure-of-finding-things-out