

PATTERNS, PUZZLES AND MATH

Wednesdays, September 2-December 2 (no class Sept 23, Nov 25; 12 weeks)

12:30pm-1:45pm

Ages 8-10

Elementary math concepts are taught and reinforced through puzzles, games and fun hands-on learning activities. Students work with numbers to study quantity, structure, space, symmetry, change, measurement, and how to seek and use patterns to formulate new conclusions. All lab costs are included in registration fee.

Instructor: Jessica Barnes, BSc

Location: Science Center (suite 5)

Course fee: \$240 OR \$22/lab (plus \$0.99 AH fee)

10% member discount

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

Minute To Win It Science Edition – Wednesday, September 2

In this math lab, students use their science lab skills and knowledge of math and numbers to solve 1-minute STEM challenges.

LEGO Patterns – Wednesday, September 9

Students use LEGO bricks to build, identify and extend repeating and growing patterns while developing early math and problem-solving skills.

Tangram Challenge – Wednesday, September 16

In this math lab, students use geometry and pattern recognition to create images that explain the relationships between shapes.

LEGO Fractions – Wednesday, September 30

Students use LEGO bricks to explore parts of a whole, compare fractions, and build visual models to understand how fractions work in real-world situations.

Number Games – Wednesday, October 7

Students learn strategies to solve math puzzles, strengthen number sense and develop critical thinking skills.



Coordinates – Wednesday, October 14

This week, we investigate coordinate grids and learn how to map out and find different shapes and locations as we play Battleship.

Angles – Wednesday, October 21

Students learn about and identify different types of angles as they work to build a marble run.

Secret Codes and Ciphers – Wednesday, October 28

Students learn how patterns, numbers and symbols are used to encode information to create secret messages, as they strengthen their problem-solving and pattern recognition skills.

Fibonacci Sequence – Wednesday, November 4

We learn about the Fibonacci Sequence and go on a scavenger hunt to explore spirals in nature and art to determine what fits this numerical pattern.

Dinosaur Measurement – Wednesday, November 11

Students study prehistoric animals as they practice estimating, measuring, comparing and using math skills to explore the incredible size of dinosaurs.

Money – Wednesday, November 18

This week, we take a practical look at numbers and learn the value of a dollar as we practice buying items and making change with shopping challenges.

Ultimate Math Escape Room – Wednesday, December 2

Students apply their knowledge of number patterns, geometry, logic, codes and problem-solving to solve puzzles, uncover clues and unlock the final mystery.

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