

Weird Math

Fall 2019 – Session 1

Instructor: Lyra Porcasi

Syllabus

Class objectives: This course is an introduction to logic and reasoning, and out-of-the-box mathematics that is not taught in traditional classes. In a single session, students will learn arithmetic in bases other than base 10, conditions, philosophical arguments, types of critical thinking, and patterns.

Topics covered:

1. Conditional statements and truth tables
2. Modular arithmetic, binary, and the Mayan number system
3. Syllogisms, premises, conclusions, and validity
4. Inductive, deductive, and abductive reasoning

Text: “Flatland/Sphereland” by Edwin A. Abbott and Dionys Burger

Required materials for class every day: The above text, black and white composition notebook, pencil w/ eraser, scientific calculator (suggested TI-30), ruler.

Student name: _____

Student Signature: _____

Date: _____

Parent Signature: _____

Date: _____