

iLumin8 Maths Lesson Plans

Lessons in Blue - Mandatory
Lessons in Green - Optional

1. Origami and STEAM a. Heart Stent and solar array video b. Fold the paper crane 2. Designing the Binary Bug a. Show the Powerpoint "Burwood Girls glide reflection" b. Colour the small square template using dice roll c. Colour the large bug template using either Glide Reflection BB pattern (harder) or Double Translation BB pattern (easier) instructions	1 Lesson 20 min + 60 min
3. Transformations	
a. Rotation i. Maths Made easy video i. Cambridge Text exercise 8A ii. Manga High "Transtar" game	1 Lesson
a. Reflection i. Maths Made easy video iii. Cambridge Text exercise 8A iv. Manga High "Transtar" game	1 Lesson
b. Translation i. Maths Made easy video v. Cambridge Text exercise 8C vi. Manga High "Transtar" game	1 Lesson
3. Building the Binary Bug a. Play "STEAMPOP_1 folding the binary bug" video b. Play "STEAMPOP_2 folding diagonals over table edge" video c. Play "STEAMPOP_3 folding the glide reflection binary bug" video d. Play "STEAMPOP_4 attaching binary bug to base" video e. Follow the instructions "Folding the Binary bug"	1 Lesson
4. All About Binary a. Binary Powerpoint b. Binary Watch activity c. Cracking the Binary code activity	1 Lesson
5. Maths in Art Activities	
a. Hexagons and 6-Point Stars	½ Lesson
b. Fibonacci Sequence + Spiral	½ Lesson
c. Finding Phi	½ Lesson
d. Pythagoras Spirals	½ Lesson
e. Digit Sum Spirals	½ Lesson
f. The Mondrian Maths Puzzle	½ Lesson
6. Shape	
a. Tessellations	1 lesson
b. Circle Folding Activity	1 Lesson
c. Making Polyhedra	½ Lesson
d. Euler's Formula	½ Lesson
e. Platonic Duals	½ Lesson
f. Molecular Geometry	1 Lesson
g. Bees with Backpacks	1 Lesson