WS4.8 Connections

Unifix Cubes

↓

Simple Patterns Predictions

← ***Periodic Functions***

↓

Start Value Variables Rate of Increase

← ***Multi-Representational Functions***
Tables, Graphs, Story, Algebra

→ ***Concepts***
Independent/Dependent variables
Covariatioanal reasoning

↓

$$y = mx + c$$

← ***Integration***
Integrate under a line
Making the diagram
Volume of revolution of a cone

→ ***Coordinate Geometry***
Linear function, making a good rough drawing of a line, solving line & circle problems

↓

Concept of Slope as a Rate of Change

← ***Calculus*** $\frac{dy}{dx}$
Constant, Increase, Decrease
Rates of change

→ ***Coordinate Geometry***
Slope formula
Trigonometry
Relation between slope & tan

↓

Point of Intersection

← ***Problem Solving***

→ ***Algebra***
Simultaneous equations
Coordinate Geometry
Find POI graphically

↓

Growing (Squares) Rectangles

← ***Sequences and Series***