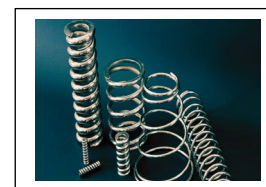




Gordon's School Mathematics Department

A-Level Further- Curriculum Map

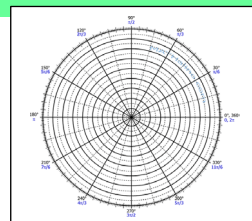


Further Mechanics

- Momentum as a vector
- Elastic strings and springs
- Elastic collisions in two dimensions

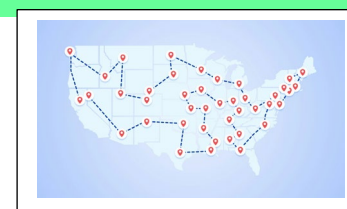
Core Pure Maths

- Complex numbers
- Series
- Methods in calculus
- Volumes of revolution
- Polar coordinates
- Hyperbolic functions
- Differential equations



Decision Maths

- Planarity algorithm
- Floyd's algorithm
- Route inspection
- The travelling salesman problem
- The simplex algorithm
- Critical path analysis

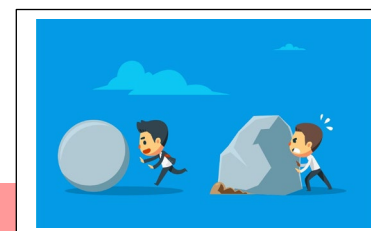


Year 13



Further Mechanics

- Momentum and impulse
- Work, energy and power
- Elastic collisions in one dimension



Core Pure Maths

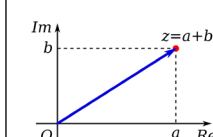
- Complex numbers
- Argand diagrams
- Series
- Roots of polynomials
- Volumes of revolution
- Matrices
- Linear transformations
- Proof by induction
- Vectors

Complex numbers:

$$a + ib$$

real part imaginary part

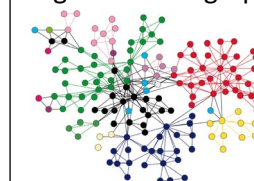
Argand diagrams:



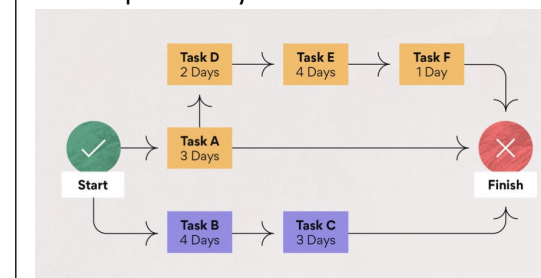
Decision Maths

- Algorithms
- Graphs and networks
- Algorithms on graphs
- Route inspection
- Linear programming
- Critical path analysis

Algorithms on graphs:



Critical path analysis:

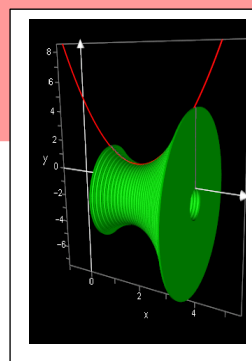


Year 12

Exam Specification:



Should this QR code not work, please click [here](#) to view the relevant specification.



Linear transformations:

