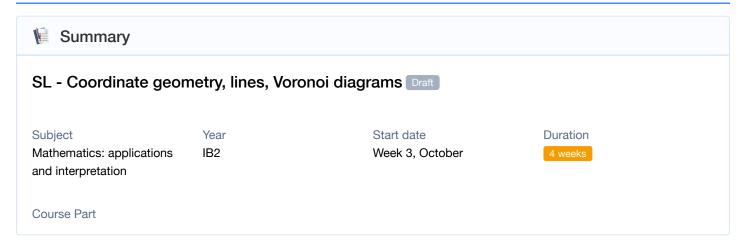
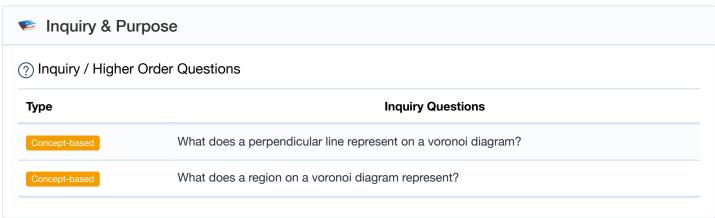
IB DP IB1 HL Applications (Mr Jacobs) (IB2)







Aims

Develop a curiosity and enjoyment of mathematics, and appreciate its elegance and power

♦ Objectives

Knowledge and understanding: Recall, select and use their knowledge of mathematical facts, concepts and techniques in a variety of familiar and unfamiliar contexts.

Syllabus Content

Topic 2: Functions

SL Content

SL 2.1

Different forms of the equation of a straight line. Gradient; intercepts.

Lines with gradients m_1 and m_2

Parallel lines $m_1=m_2$. Perpendicular lines $m_1 imes m_2=-1$

Topic 3: Geometry and trigonometry

SL Content

IB DP IB1 HL Applications (Mr Jacobs) (IB2)

SL 3.5

Equations of perpendicular bisectors.

SL 3.6

Voronoi diagrams: sites, vertices, edges, cells.

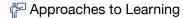
Addition of a site to an existing Voronoi diagram.

Nearest neighbour interpolation.

Applications of the "toxic waste dump" problem.



ATL Skills





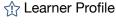
Thinking

- In this unit, we will

give students time to think through their answers before asking them for a response



Developing IB Learners





Inquirers



Knowledgeable



Thinkers