How We Organise Ourselves

YEAR 6 UNIT OF INQUIRY OVERVIEW

An inquiry into the interconnectedness of human-made systems and communities, and the structure and function of organisations.

CENTRAL IDEA:

The collection and interpretation of data influences the decisions made by society.

Enduring Understandings:

What do we want the students to remember for a lifetime?

- Data informs our decisions and validates our opinions

Teacher Questions:

- What is data?
- How can data be collected, organised, displayed and analysed in different ways?
- What are the different types of graphs?
- How can different graph forms highlight different aspects of data more efficiently?
- How can range, mode, median and mean be used to analyse statistical data?
- What is a census?
- What is a good question?

Inquire. Explore. Imagine.
PYP Attitudes
What attitudes do we want students to demonstrate?

**Cooperation** – To cooperate, collaborate, and lead or follow as the situation demands

**Commitment** – To show commitment to learning, persevering and showing self-discipline and responsibility

**Curiosity** – To understand that it is important to be curious about the nature of learning and the world

Learner Profile Attributes
What attributes do we want students to exemplify?

**Communicators** - They understand and express ideas and information confidently and creatively. They work effectively and willingly in collaboration with others.

**Inquirers** - They develop their natural curiosity. They acquire the skills necessary to conduct inquiry and research and show independence in learning.

**Risk-Takers** - They approach unfamiliar situations and uncertainty with courage and forethought, and have the independence of spirit to explore new roles, ideas and strategies

How can parents help at home?

To deepen your child’s understanding of their mathematical inquiry, you could:

- Ask your child what their inquiry is
- Discuss the results and data they have collected
- Provide opportunities for your child to reflect on their findings
- Question and challenge their results

Skills
What Transdisciplinary skills will students acquire and practice during the unit?

**RESEARCH**

**Collecting** – Collecting relevant, truthful and accurate data

**Recording** – Recording data efficiently and accurately

**Organising & interpreting data** – Organising information into a purposeful format that best represents the data

**Presenting findings** – Presenting findings with visual representations and clear explanations

**THINKING**

**Analysis** – Analysing collected data by comparing data, verifying & justifying results and drawing conclusions

**Evaluation** – Evaluating the investigation process at all stages and making changes where necessary

**SELF-MANAGEMENT**

**Organisation** – Responsibly managing survey data

**Informed Choices** – Making decisions and suggestions based on information presented in data

Key Concepts

**FUNCTION** - The examination of systems, relationships, mechanics, components and patterns.

**REFLECTION** – Being able to communicate how we have come to understand an idea, concept or skill. Being able to evaluate the effectiveness of strategies and tools used in order to inform future learning.

**CONNECTION** – The examination of systems and strategies to identify different kinds and levels of relationships, within and between different strands of mathematics and beyond to other subject areas.