

The Journey

Post-Show Lesson 1

‘To be able to gather data’

Curriculum for Excellence experiences and outcomes covered.

I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.

MNU 2-20b

When I engage with others, I can respond in ways appropriate to my role, show that I value others' contributions and use these to build on thinking.

LIT 2-02a

Opportunities to carry out different activities and roles in a variety of settings have enabled me to identify my achievements, skills and areas for development. This will help me to prepare for the next stage in my life and learning.

HWB 2-19a

Organisation of Pupils: Whole class, groups, individuals.

Learning Intentions	Success Criteria
<ul style="list-style-type: none"> • To be able to gather data 	<ul style="list-style-type: none"> • Gather relevant data and present information in a clear way.
<p>Key Learning and Teaching Points:</p> <ul style="list-style-type: none"> • Data can provide us with information • Data can be presented in a variety of ways • We can extract an average from data presented 	

LESSON PROCEDURE - Interactions and Communications

Introduction: C. 5-10 mins

The teacher to introduce the learning intention and success criteria. Teacher then to begin discussion of what data is, and how it can be collected and collated.

Development: C. 20-40 mins

Teacher begins by asking pupils what can be measured by using data.

Teacher will show the class examples of data measured on IWB with generic pictures and asking for feedback from pupils as to how they prefer the data to be presented.

Teacher will ask pupils to think of how data can be collected and gear the pupils to answer survey. The teacher will then ask for suggestions from the class of things that they could survey as an example. E.g. eye colour, hair colour or height and conduct the survey within the class.

Teacher will then begin the discussion around gathering data about how pupils get to school each day, and how they intend to travel to high school.

The class will then work together to construct a survey of how their class travels to school and how they intend to travel to high school factoring in the female/male split.

Groups will then decide how to present this data, either using a pie chart, pictogram or bar chart.

Pupils will present their data and feedback will be given on the presentations by the rest of the class.

Extension Activity:

For more able, higher attaining students and fast finishers and as a useful on-going reference point it would be helpful to utilise, where appropriate, online resources. These include: Streetsense2, JRSO and Streetwise Guys. These sites are aimed at upper primary school children). In particular, there is a focus on children in the transition period from primary to secondary, when they are most at risk. The websites use interactive games to educate young people about road safety in a fun way. They can be used in the classroom, whilst teaching road safety.

www.streetsense2.com

www.jrso.com

www.streetwiseguys.co.uk

Plenary C. 5-10 mins

HOTS Questions:

- What can you remember about what we were learning today?
- How would you explain what we were learning today?
- Why do you think we were learning about it?
- Can you give me an example of how you met your success criteria?
- What conclusions could you make about what we were doing today?
- Where could you use what we have learned today elsewhere?

Significant Resources:

- Google image search on data presentation
- www.streetsense2.com
- www.jrso.com
- www.streetwiseguys.co.uk