Year 4 Data Handling Knowledge Map

eLIM Support Services for Education sse

Expectations

- I can organise data in different ways.
- I can collect data and identify where it could be inaccurate.
- I can plan, create and search a database to answer questions.
- I can choose the best way to present data to my friends.
- I can use a data logger to record and share my readings with my friends.

Vocabulary to use

Branching database	Predict
Chart	Questions
Collect	Record
Data	Results
Database	Tally
Data logger	Sort
Decision tree	Venn diagram
Graph	**Vocabulary to develop**
Information	Field
Interpret	Hypothesis
Investigate	

Skills

- Rename documents and other files
- Use appropriate screen capture and insert in document or presentation
- Add data to a graphing program
- Interrogate data
- Plan a database
- Create a branching database
- Sort a database to answer questions
- Use a data-logger or data logging app to record discrete and continuous data

Expected prior learning

- Use a data logger (app or device) to sense and record changes
- Use appropriate apps and/or software to collect and record data
- Collect and present data in different ways
- Generate questions for an investigation and make decisions about data that will need to be collected
- Use and answer questions from a branching database

Cross curriculum context

- English: ask relevant questions, explain understanding of information, develop and order ideas, use spoken language to share learning
- Maths: Use appropriate software and apps to present and interpret data. Interpret data collected with data-loggers.
- Investigate and represent information for scientific, geographical, mathematical or other learning

Experiences

- Discuss differences between data and information
- Measure sound levels using a data logger or data logging app
- Record changes in noise levels
- Plan an investigation of sound insulation and present findings
- Use a graphing program or spreadsheet
- Create a branching database *to sort and classify game characters*
- Use an online database
- *Search database to answer questions*

Concepts and understanding

- Data becomes information when it has a context and units of measure
- Information can be collected as discrete or continuous data
- A database can be filtered to provide answers to questions

Develop Computational thinking

Expectations: Computational thinker model http://bit.ly/compthinkingSomerset

Attitudes
Comfortable making mistakes
Perseverance
Imagination
Collaboration

Skills
Pattern recognition
Decomposition
Algorithm design
Abstraction and generalisation