Unit 5c

Evaluating Information, Checking Accuracy + Questioning Plausibility

Unit 5c

This unit deals with the importance of checking information for mistakes and anomalies, how to detect mistakes and amend them.

Vocabulary

Accuracy
Error
Bias

Resources

Information workshops files ERROR 1

Assessment

All children will be able to recognise the importance of checking data, and that poor quality information leads to unreliable results.
Most children will be able to interpret, check and question data, and recognise that poor quality information leads to unreliable results.
Some children will be able to interpret, check and question data. Use logic
to identify implausible and inaccurate data, and recognise that poor quality
information leads to unreliable results

Unit 5C

Lesson 1

Teacher Task In Classroom

Discuss how databases are used in everyday life. Pupil database on school computer, hospitals, supermarkets police etc.
Discuss what they're for, and what would happen if information was entered incorrectly. Talk about W.W.W. information that is inaccurate or biased, discuss why this might be?

Learning Outcome

Children identify some of the implications of incorrect data.

Lesson 2 +3

Teacher Task

Open ERROR 1, tell children that there are errors in this database.
Error type 1 - Incorrect spellings
Error type 2 - Implausible data
          I.e. 1 cm for length of river
Error type 3 - Incorrect field type
          I.e. Ten instead of 10
          Girl instead of f for female.

Pupil Task

Find the errors.
Discuss how the errors may have serious implications (times in   time-table etc).

Learning Outcome

Children can identify implausible and incorrect data entry.

Lesson 4

Teacher Task

Discuss how when errors (spelling or incorrect field types) are detected, some are correctable immediately, and cases where errors can be detected but not corrected (where data is implausible).
Tell class if there are too many errors, or a series of major errors, it is better to delete database and start again.
Load ERROR 2, locate error. Discuss how difficult it is to spot errors.
Print out a line graph of information. Show how this can help highlight all errors.
Suggest that children can test if they have entered data correctly by printing a line graph graph when using databases or spreadsheets.

Learning Outcome

Children can identify an incorrect point on a line graph.