

MAP SCIENCE SKILLS

Grade 3:

Count
Classify objects according to one attribute
Make conclusions from data
Make a bar graph
Make a pictograph
Interpret a bar or pictograph
Make linear measurements
Transfer data from charts to graphs
Create a data table to fit information from a paragraph
Enter/record data in a chart/table
Interpret a chart/table
Identify conditions that make an experiment fair or not fair
Sort items by more than one attribute
Use sequencing
Create questions to study
Gather data
Measure to nearest centimeter
Recognize sample size in an investigation
Order data
Sequence process steps
Identify patterns in data;
Make inferences;
Make predictions;
Make observations;
Make comparisons

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Grade 7:

All of the skills of grade 3 plus:

Design an experiment (preparation, experimentation, quantification)
Identify controls and constants and explain why and how they are held constant
Write a hypothesis
Write a testable question (showing IV/DV relationship)
Write short answer questions
Graph data/know which type of graph to use to display data
Use measurement tools and metric units
Display independent and dependent variables on proper axes of graphs
Label axes with units
Plot data accurately
Find averages
Title on graphs/data tables
Intervals on graph axes correct
Identify IV and DV
Show/identify relationships between IV/DV

Grade 10:

All of the skills of grades 3 and 7 plus:

Identify sources of errors in an experiment
Use extrapolation on graph to predict
Evaluate patterns from data
Create a hypothesis from a scenario
Identify constant factors in an experiment
Identify variables that would impact experimental design
State a problem then write a testable question
Label graphs and data tables with units, titles, IV and DV on proper axes
Identify control groups
Identify experimental groups
Know what type of graph to use to display data