



Growing Data Smart!

How Data Literacy, Management, & Representation Helps Students Succeed

Students learn to **collect, organize, manage, analyze,** and **share data** in meaningful ways. These skills help them make informed decisions and solve real-world problems using facts, not just opinions!



DATA LITERACY, MANAGEMENT, & REPRESENTATION

is 1 of the 5 strands of the Texas Technology Applications TEKS for K–8!



WHAT WILL MY CHILD LEARN?



COLLECT & ORGANIZE DATA

Gather information from surveys, observations, sensors, or other sources and keep it organized for use.



MANAGE DATA

Store, sort, and protect data so it is accurate, up to date, and easy to find when needed.



ANALYZE DATA

Look for patterns, trends, and relationships to draw conclusions and answer important questions.



REPRESENT DATA

Create charts, graphs, tables, and other visuals to show data clearly for a specific audience.



USE DATA TO INFORM DECISIONS

Use data to make smart choices and solve problems in school, community, and beyond.

HOW THESE SKILLS GROW ACROSS GRADE LEVELS

KINDERGARTEN – 2ND GRADE



- Collect data using simple tools like tally marks
- Sort and organize information
- Create simple charts and pictographs
- Ask and answer questions about data

3RD – 5TH GRADE



- Collect data from multiple sources
- Use digital tools to organize and manage data
- Analyze data to find patterns and trends
- Create graphs, charts, and tables
- Use data to make informed decisions

6TH – 8TH GRADE



- Collect and evaluate complex data sets
- Use spreadsheets and databases to manage data
- Analyze data using multiple techniques
- Create and evaluate data visualizations
- Use data to solve real-world problems and support decisions



TRY IT AT HOME!

- ✓ Take a family poll (favorite movie, color, or vacation spot).
- ✓ Track the weather for a week and make a chart.
- ✓ Sort items by size, color, or type.
- ✓ Count steps or set a fitness goal and track your progress.
- ✓ Ask questions and explore the answers with data!



TALK TOGETHER

- ★ What data did you collect?
- ★ What patterns or trends did you notice?
- ★ What does this data tell us?
- ★ How did you show your data?
- ★ What decisions could we make based on this information?



TECHNOLOGY IS ALWAYS CHANGING!

- 🕒 Data helps us understand our world.
- 📶 Sensors, apps, and devices collect data every day.
- 👥 Data is used in science, health, sports, business, and more!
- 🌐 Learning to use data wisely helps students solve problems and create a better future.



FAMILIES MAKE A DIFFERENCE!

- ♥ Celebrate curiosity and questions!
- ♥ Encourage your child to look for patterns.
- ♥ Practice using facts and data, not just opinions.
- ♥ These habits build critical thinkers and confident learners!



TOGETHER, WE CAN!

When schools and families work together, students build strong data skills, make informed decisions, and succeed in school and life!

