

# Texas Sixth Grade Technology Checklist

## Computational Thinking

- ☐ Use **algorithms and logical reasoning** to solve problems.
- ☐ Apply **problem decomposition** and **pattern recognition** to digital tasks.
- ☐ Begin exploring **basic coding** concepts, such as sequencing, loops, and conditionals.

### Examples:

- ✓ Break a complex task into steps for programming
- ✓ Identify patterns in digital games or apps

## Creativity and Innovation

- ☐ Create original products using **digital tools** (e.g., presentations, graphics, audio/video).
- ☐ Explore digital design through **modeling, simulations, or animation tools**.
- ☐ Practice **brainstorming, drafting, and revising** creative work using technology.

### Examples:

- ✓ Design a slideshow on a science topic
- ✓ Animate a short story or concept

## Data Literacy, Management, and Representation

- ☐ Collect, organize, and display data using tools like spreadsheets or graphing software.
- ☐ Use **charts and graphs** to interpret and communicate findings.
- ☐ Understand **data accuracy and security** basics.

### Examples:

- ✓ Create a bar graph to show survey results
- ✓ Use formulas in spreadsheets to calculate totals

## Digital Citizenship

- ☐ Practice safe, legal, and ethical behavior in digital environments.
- ☐ Understand **cyberbullying, privacy, and responsible sharing** of personal information.



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- ☐ Respect **copyright, intellectual property**, and use proper citations.

## Examples:

- ✓ Identify secure passwords and privacy settings
- ✓ Credit images and sources in a digital project

## Practical Technology Concepts

- ☐ Use **input/output devices**, troubleshoot tech issues, and manage files.
- ☐ Navigate digital operating systems and productivity apps (e.g., word processors, slide decks).
- ☐ Understand how **hardware, software, and networks** work together.

## Examples:

- ✓ Format a document using a word processor
- ✓ Save files to cloud storage and share with a partner

## Research and Information Fluency

- ☐ Use **search strategies** to find reliable information online.
- ☐ Evaluate **digital sources** for credibility and relevance.
- ☐ Cite sources properly when creating content.

## Examples:

- ✓ Use advanced search filters for a research project
- ✓ Create a digital bibliography

