



# COMPUTER SCIENCE

# 1

FOR FAMILIES

**YOU ARE** your child's first teacher. Learn how to support the goals of Oklahoma's academic standards and why they are important to your child. Please be in regular communication with your child's teachers and ask how you can support computer science education at home. When schools and families work together as partners, your child experiences greater academic success!

## FIRST GRADE

### What to expect:

First grade is when children begin to develop more independence with technology and problem-solving skills. Families play a vital role in encouraging exploration and safe technology use at home. Computer science helps children think logically and creatively. Ask questions like, “How do computers help us solve problems?” to spark meaningful discussions.

### Learning Goals:

- Learn how to use and take care of common technology like a mouse, keyboard, and touchscreen.
- Understand how devices share information and why strong passwords help keep information safe.
- Practice opening, changing, and saving files with simple names, and learn to collect and show data using charts or graphs.
- Follow and create clear steps to solve problems using patterns and repetition.
- Explore how we use technology every day and how to stay safe and respectful online.

### What to do at home:

- Identify parts of digital devices and practice fixing simple issues, like no sound or apps not working.
- Show how devices share information (like viewing the same photo on a phone and tablet) and create strong passwords together.
- Collect family data (like favorite foods), make charts and graphs, and discuss what the data shows.
- Write step-by-step instructions for everyday tasks with repeated steps and break big problems into smaller parts.
- Talk about how your family uses technology daily and explore how tools like voice assistants help people work more efficiently.



**OKLAHOMA**  
Education



# COMPUTER SCIENCE

FOR FAMILIES

## Fostering Curiosity

Children are naturally curious and motivated to learn about things that interest them. Computer science builds on this curiosity by encouraging problem-solving and creativity. Let your child explore how technology works and ask questions about the devices they see in daily life.

Support your child's curiosity with questions like:

- What do you think happens when computers connect to each other?
- How could we break down this problem into smaller steps?
- How do you think AI assistants like voice speakers know how to answer questions?

Your child will have plenty of questions. It is okay if you do not always have the answer. The best response is always, "Let's find out together."

## Fostering Communication

Build your child's vocabulary, thinking skills, and curiosity by using new words and having conversations that include questions to make your child think. Communicating with others gives children a chance to see and understand that there can be more than one point of view about a given subject. Accepting different ideas helps children learn how to get along with others, encouraging positive relationships with other children and a strong self-image.

Support your child's communication skills with questions like these:

- Can you explain the steps you took to solve that problem?
- How do you think this device connects to other devices?
- What would happen if we changed the order of these instructions?

## Fostering Comprehension

Making connections between computer science and the real world helps children see its importance. Encourage your child to relate their learning to everyday experiences.

- Connect computer science with math by collecting and displaying data in charts or graphs, like tracking daily temperatures or favorite foods.
- Connect computer science with digital citizenship by discussing appropriate online behavior and the importance of keeping passwords private.
- Explore emerging technologies together by discussing how AI tools can recognize patterns in information or help people complete tasks more efficiently.



OKLAHOMA  
Education