LOUISIANA DEPARTMENT OF EDUCATION

Office of Teaching and Learning - Computer Science

Louisiana Computer Science Framework

The Louisiana Computer Science Framework (LCSF) provides a structured progression of learning within the K-12 Louisiana Student Standards for Computer Science, ensuring students build foundational knowledge and essential skills over time. It outlines core concepts and practices that help students understand key ideas in computer science, develop problem-solving abilities, and apply computational thinking.

Key Features of the LCSF

Core Concepts

Core concepts represent fundamental ideas in computer science that students explore throughout their education and enable students to develop a comprehensive knowledge of computer science. The K-12 Louisiana Student Standards for Computer Science are organized around these five core concepts.

Core Practices

Core practices encompass the skills and habits of mind students develop while learning computer science. These seven practices are interconnected and reinforce one another, guiding students in analyzing problems, designing solutions, and communicating their understanding.

Core Concepts	Core Practices
1. Computing Systems	1. Fostering responsible cyber citizenship
2. Networks and the Internet	2. Collaborating around computing
3. Data and Analysis	3. Recognizing and defining computational problems
4. Algorithms and Programming	4. Developing and using abstractions
5. Impacts of Computing	5. Creating computational artifact
	6. Testing and refining computational artifacts
	7. Communicating about computing