CompuScholar, Inc.

Alignment to Texas "Career and College Readiness (CCRS)" Standards All CompuScholar Courses

Texas Standards:		
Standards Name:	Career and College Readiness (CCRS)	
Focus Area:	Cross-Disciplinary Standards	
Standards Link:	TFC_CCRS.pdf	

Description

Preparing students for a computing career beyond high school is the heart of CompuScholar's mission. We teach technical subjects with a real-world, hands-on focus, and our courses naturally align to the Texas "Cross-Disciplinary" CCRS standards as described below.

I. Key Cognitive Skills		
A. Intellectual curiosity	DESCRIPTION	
1. Engage in scholarly inquiry and dialogue.	Every lesson has suggested classroom discussion topics.	
2. Accept constructive criticism and revise personal views when valid evidence warrants.	Team projects within each course give opportunity for intra-team discussion and revision as well as peer- review and incorporation of feedback into the final product.	
B. Reasoning	DESCRIPTION	
1. Consider arguments and conclusions of self and others.	Team projects within each course give opportunity for intra-team discussion and revision as well as peer- review and incorporation of feedback into the final product.	
2. Construct well-reasoned arguments to explain positions.	Team projects within some courses include writing clear requirements and design documentation. Some courses also include a supplemental lesson on technical writing that involves research and presentation of facts.	
3. Gather evidence to support arguments, findings, or lines of reasoning	Team projects within some courses include writing clear requirements and design documentation. Some courses also include a supplemental lesson on technical writing that involves research and presentation of facts.	
4. Support or modify claims based on the results of an inquiry.	Team projects within each course give opportunity for intra-team discussion and revision as well as peer- review and incorporation of feedback into the final product.	
C. Problem solving	DESCRIPTION	
1. Analyze a situation to identify a problem to be solved.	Students will read activity instructions within every chapter in order to understand and complete hands-on projects and solve specific problems.	

2. Develop and apply multiple strategies to solve a	Courses will describe multiple ways to solve the same
problem.	problem, where relevant, and discuss the pros and cons
	of each approach.
3. Collect evidence and data systematically and	Some hands-on projects involve careful building and
directly relate to solving a problem.	testing of coded projects, with test results matched to
	the activity instructions and expected results. Other
	hands-on projects require online research and gathering
	of data to incorporate into the final product.
D. Academic behaviors	DESCRIPTION
1. Self-monitor learning needs and seek assistance	Students get immediate feedback on a lesson-by-lesson
when needed.	basis with the results of automated lesson quizzes.
	Students can seek assistance for specific topics based
	on the quiz results. Students can also complete
	numerous in-lesson, hands-on exercises to verify
	understanding of the immediate lesson material.
2. Use study habits necessary to manage academic	All courses follow a consistent pattern of instructional
pursuits and requirements.	material, in-lesson exercises to re-enforce skills, lesson
	quizzes to verify understanding, and hands-on projects
	and chapter tests to demonstrate mastery. This
	consistent approach allows student to develop the
	study habits necessary to be successful.
3. Strive for accuracy and precision.	Both in-lesson exercises and chapter projects provide
	specific goals and the means to compare student work
	to expected results.
4. Persevere to complete and master tasks.	Courses can be configured to allow re-takes of quizzes
	and tests as well as re-submission of projects, at
	teacher discretion. Students are therefore encouraged
	to correct issues and improve grades, subject to district
	policy.
E. Work habits	DESCRIPTION
1. Work independently.	Courses contain large numbers of in-lesson exercises
	and chapter activities that can be completed
	individually, with minimal teacher guidance.
2. Work collaboratively.	Courses contain team projects that allow students to
	collaborate on extended projects.
F. Academic integrity	DESCRIPTION
1. Attribute ideas and information to source	Courses contain lessons on ethics in computing,
materials and people.	intellectual property, digital copyrights, plagiarism and
	citation of sources.
2. Evaluate sources for quality of content, validity,	When research is done to gather external information,
credibility, and relevance.	students are encouraged to evaluate those sources to
	meet the project needs. Internal and peer review gives
	opportunities to evaluate and correct sources.
3. Include the ideas of others and the complexities	Team projects within each course give opportunity for
of the debate, issue, or problem.	intra-team discussion and revision as well as peer-
	review and incorporation of feedback into the final
	product.

4. Understand and adhere to ethical codes of	Courses contain lessons on ethics in computing,
conduct.	intellectual property, digital copyrights, plagiarism and
	citation of sources.

II. Foundational Skills		
A. Reading across the curriculum	DESCRIPTION	
1. Use effective prereading strategies.	Built-in instructional videos for each lesson will	
	introduce and re-enforce the text lesson concepts.	
2. Use a variety of strategies to understand the	Built-in instructional videos for each lesson will	
meanings of new words.	introduce and re-enforce key terms. Students are also	
	encouraged to seek peer or teacher clarification or use	
	built-in language translator links to identify new words.	
3. Identify the intended purpose and audience of	Where applicable, projects intended for external	
the text.	consumption are encouraged to use styles and terms	
	suitable for the intended audience. Students may also	
	read a variety of external reference material to	
	understand how technical information is communicated	
	as official standards.	
Identify the key information and supporting	Built-in instructional videos for each lesson will	
details.	introduce and re-enforce key lesson concepts. The	
	lesson text will expand the concepts with full details.	
5. Analyze textual information critically.	Students must carefully review lesson text and activity	
	instructions in order to successfully complete hands-on	
	projects. Students may also read a variety of external	
	reference material to understand how technical	
	information is communicated as official standards.	
6. Annotate, summarize, paraphrase, and outline	Large course projects are often broken into a series of	
texts when appropriate.	careful steps that allow students to plan, design, and	
	execute tasks in a top-down manner, filling in additional	
	details at the appropriate time.	
7. Adapt reading strategies according to structure	All courses follow similar patterns of instructional	
of texts.	material that consistently offers introductory videos	
	and full lesson text. Student can adopt the reading	
	strategy that best suits their individual learning style.	
8. Connect reading to historical and current events	Where applicable, lessons will include relevant	
and personal interest.	historical notes or examples that connect to a student's	
	every-day life.	
B. Writing across the curriculum	DESCRIPTION	
1. Write clearly and coherently using standard	All courses include numerous projects that demand	
writing conventions.	written output (code, text, and other documents) that	
	meet specific syntax requirements.	
2. Write in a variety of forms for various audiences	All courses include opportunities to generate a variety	
and purposes.	of digital artifacts (planning documents, design	
	documents, content documents, coded projects, test	
	plans and results, etc.)	

2 Compass and raviss drafts	Larger projects give expertupities to test and revise
3. Compose and revise drafts.	Larger projects give opportunities to test and revise
	work. These projects also allow for peer review and
	incorporation of external suggestions into the final
C. Research across the curriculum	product. DESCRIPTION
1. Understand which topics or questions are to be	Courses include projects that allow free-form student
investigated.	investigation into topics of their choosing, subject to
	guidance and requirements within each project.
2. Explore a research topic.	Courses include projects that allow free-form student
	investigation into topics of their choosing, subject to
	guidance and requirements within each project.
3. Refine research topic based on preliminary	Team projects include phased steps such as research,
research and devise a timeline for completing	design, implementation, and testing based on a project
work.	timeline.
4. Evaluate the validity and reliability of sources.	When research is done to gather external information,
	students are encouraged to evaluate those sources to
	meet the project needs. Internal and peer review gives
	opportunities to evaluate and correct sources.
5. Synthesize and organize information effectively.	Team projects include opportunities to obtain, generate
	and present information in effective formats (e.g. coded
	projects and other content documentation).
6. Design and present an effective product.	Team projects include design and implementation
	steps. Teams are encouraged to present their work to
	the class when finished.
7. Integrate source material.	Team projects encourage integration of research
	material into the final output.
D. Use of data	DESCRIPTION
1. Identify patterns or departures from patterns	Students are taught to recognize consistent situations
among data.	where a particular approach (coding skill,
	documentation format, etc.) is a typical and effective
	solution.
2. Use statistical and probabilistic skills necessary	Student projects that involve gathering of data will
for planning an investigation and collecting,	incorporate the collection, analysis, and presentation of
analyzing, and interpreting data.	that data.
3. Present analyzed data and communicate and	Team projects include opportunities to obtain, generate
display findings in a clear and coherent manner	and present information in effective formats (e.g. coded
	projects and other content documentation).
E. Technology	DESCRIPTION
1. Use technology to gather information.	Our online courses use modern technology to deliver all
	instructional content through a web browser. Students
	will further use appropriate online sources and
	technical reference material as needed for specific
	projects.
2. Use technology to organize, manage, and	Team projects include opportunities to obtain, generate
analyze information.	and present information in effective formats (e.g. coded

3. Use technology to communicate and display findings in a clear and coherent manner	Team projects include opportunities to obtain, generate and present information in effective formats (e.g. coded projects and other content documentation).
4. Use technology appropriately	Best practices for specific skills are taught in each course. Courses also include lessons on ethical computing and security.