

Future City Competition Activities and Essential Academic Learning Requirements (EALRs)⁽¹⁾

	<u>Standards set for Each EALR</u>	<u>Future City Competition Activities</u>
	The student -	The Student will -
Reading:	<ul style="list-style-type: none"> Understands and uses different skills and strategies to read Understands the meaning of what is read Reads different materials for a variety of purposes Sets goals and evaluates progress to improve reading 	<ul style="list-style-type: none"> Read a variety of material to understand city planning steps Determine how to satisfy competing issues in developing city plans Be reading software instructions to judging criteria charts Evaluate his understanding through the competition scoring forms
Writing:	<ul style="list-style-type: none"> Writes clearly and effectively Writes in a variety of forms for different audiences and purposes Understands and uses the steps of the writing process Analyzes and evaluates the effectiveness of written work 	<ul style="list-style-type: none"> Describe in writing their Future City in a 100-200 word abstract Write a 300-500 word essay of a creative engineering solution Determine and write for the needs of the audience and the purpose Use a writing style appropriate to a scientific audience
Communications:	<ul style="list-style-type: none"> Uses listening and observation skills to gain understanding Communicates ideas clearly and effectively Uses communication strategies and skills to work effectively with others Analyzes and evaluates the effectiveness of formal and informal communication 	<ul style="list-style-type: none"> Seek agreement through cooperation with team members Present their city design in a competition to a panel of judges Develop their communication skills working in a team environment Work with engineering mentor who will provide guidance
Mathematics:	<ul style="list-style-type: none"> Understands and applies the concepts and procedures of mathematics Uses mathematics to define and solve problems Uses mathematical reasoning Communicates knowledge and understanding in both everyday and mathematical language Understands how mathematics ideas connect within mathematics, other subject areas, and real-life situations 	<ul style="list-style-type: none"> Represent numerical relationships in two dimensional graphs Describe, and analyze patterns to solve problems Visualize and solve problems using mathematical reasoning Demonstrate his or her knowledge of a solution to a problem through the use of tables, graphs, and geometric modeling Develop and apply number theory concepts in real-world and mathematical problem situations
Science:	<ul style="list-style-type: none"> Understands and uses scientific concepts and principles Knows and applies the skills and processes of science and technology Understands the nature and context of science and technology 	<ul style="list-style-type: none"> Develop descriptions, predictions, and models using evidence Identify questions that can be answered through scientific inquiry conduct scientific investigation, analyze, and interpretation of data
Social Studies:	<ul style="list-style-type: none"> Examines and understands major ideas, eras themes, developments, turning points, chronology, and cause-effect relationships in the United States, world, and Washington State History Understands the origin and impact of ideas and technological developments on history 	<ul style="list-style-type: none"> Learn basic economic concepts and analyze their effects on individuals, groups and societies Develop an understanding of the complex physical and human characteristics of regions and places Gain understanding of the impact of technology on peoples lives by reviewing their past affects in history
The Arts:	<ul style="list-style-type: none"> Understands and applies knowledge and skills Demonstrates thinking skills using artistic processes Communicates through the arts Makes connections within and across the arts to other disciplines, life, cultures, and work 	<ul style="list-style-type: none"> Develop eye catching illustrations, and figures for their essays Apply their artistic ability to their future city building architecture Creatively construct a model of their city using recycled goods Build colorful charts for use in conveying how great their ideas are for the citizens of their future city
Health and Fitness:	<ul style="list-style-type: none"> Acquires the knowledge and skills to maintain an active life Acquire the knowledge and skills to maintain a healthy life 	<ul style="list-style-type: none"> Develop city parks in future city for place for citizens to relax Learn about the effects of pollution on life expectancy

⁽¹⁾ Information extracted from Washington State's Essential Academic Learning Requirements Technical Manual, November 2002: Manual can be viewed and downloaded from www.k12.wa.us. Click on "Standards / EALRs".