



Eric Evans' Lesson Plans for the Week of **Apr 8, 2018**

Mon, Apr 9 (Day A)	Tue, Apr 10 (Day B)	Wed, Apr 11 (Day B)	Thu, Apr 12 (Day B)	Fri, Apr 13 (Day A)
	English I EOC 8:00am to 2:00pm		English II EOC 8:00am to 2:00pm	
<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 1 (8:00 AM - 8:50 AM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of stable truss design and build a model bridge. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Boot-Up Desktop Computer <p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> Review Project Guidelines <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> N/A <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> N/A <p>Independent Practice: (You Do)</p>	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 1 (8:00 AM - 8:50 AM)</p> <p>TBA - STAAR Testing (English I EOC)</p>	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 1 (8:00 AM - 8:50 AM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of stable truss design and build a model bridge. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Boot-Up Desktop Computer <p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> Review Project Guidelines <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> N/A <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> N/A <p>Independent Practice: (You Do)</p>	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 1 (8:00 AM - 8:50 AM)</p> <p>TBA - STAAR Testing (English II EOC)</p>	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 1 (8:00 AM - 8:50 AM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of stable truss design and build a model bridge. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Boot-Up Desktop Computer <p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> Review Project Guidelines <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> N/A <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> N/A <p>Independent Practice: (You Do)</p>

Mon, Apr 9 (Day A)	Tue, Apr 10 (Day B)	Wed, Apr 11 (Day B)	Thu, Apr 12 (Day B)	Fri, Apr 13 (Day A)
<ul style="list-style-type: none"> • Lab 13-3 <p>Graded Items</p> <ul style="list-style-type: none"> • Daily Grades (50%) <ul style="list-style-type: none"> ◦ Lab 13-3 (Due Friday) <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><i>Standards/Expectations:</i></p> <p>3: The student presents conclusions, research findings, and designs using a variety of media throughout the course. The student is expected to:</p> <p>3a: use clear and concise written, verbal, and visual communication techniques</p> <p>5: The student describes the factors that affect the progression of technology and the potential intended and unintended consequences of technological advances. The student is expected to:</p> <p>5a: describe how technology has affected individuals, societies, cultures, economies, and environments</p> </div>		<ul style="list-style-type: none"> • Lab 13-3 <p>Graded Items</p> <ul style="list-style-type: none"> • Daily Grades (50%) <ul style="list-style-type: none"> ◦ Lab 13-3 (Due Friday) <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><i>Standards/Expectations:</i></p> <p>3: The student presents conclusions, research findings, and designs using a variety of media throughout the course. The student is expected to:</p> <p>3a: use clear and concise written, verbal, and visual communication techniques</p> <p>5: The student describes the factors that affect the progression of technology and the potential intended and unintended consequences of technological advances. The student is expected to:</p> <p>5a: describe how technology has affected individuals, societies, cultures, economies, and environments</p> </div>		<ul style="list-style-type: none"> • Lab 13-3 <p>Graded Items</p> <ul style="list-style-type: none"> • Daily Grades (50%) <ul style="list-style-type: none"> ◦ Lab 13-3 (Due Friday) <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><i>Standards/Expectations:</i></p> <p>3: The student presents conclusions, research findings, and designs using a variety of media throughout the course. The student is expected to:</p> <p>3a: use clear and concise written, verbal, and visual communication techniques</p> <p>5: The student describes the factors that affect the progression of technology and the potential intended and unintended consequences of technological advances. The student is expected to:</p> <p>5a: describe how technology has affected individuals, societies, cultures, economies, and environments</p> </div>

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<p>5c: describe how and why technology progresses</p> <p>6: The student thinks critically and applies fundamental principles of system modeling and design to multiple design projects. The student is expected to:</p> <p>6b: identify the chemical, mechanical, and physical properties of engineering materials</p> <p>9: The student demonstrates the ability to function as a team member while completing a comprehensive project. The student is expected to:</p> <p>9d: develop and test the model for the project</p>		<p>5c: describe how and why technology progresses</p> <p>6: The student thinks critically and applies fundamental principles of system modeling and design to multiple design projects. The student is expected to:</p> <p>6b: identify the chemical, mechanical, and physical properties of engineering materials</p> <p>9: The student demonstrates the ability to function as a team member while completing a comprehensive project. The student is expected to:</p> <p>9d: develop and test the model for the project</p>		<p>5c: describe how and why technology progresses</p> <p>6: The student thinks critically and applies fundamental principles of system modeling and design to multiple design projects. The student is expected to:</p> <p>6b: identify the chemical, mechanical, and physical properties of engineering materials</p> <p>9: The student demonstrates the ability to function as a team member while completing a comprehensive project. The student is expected to:</p> <p>9d: develop and test the model for the project</p>
<p>COMPUTER SCIENCE 1 - SECTION 1 (8:54 AM - 10:24 AM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of Python by developing a program 	<p>COMPUTER SCIENCE 2 (8:54 AM - 10:24 AM)</p> <p>TBA - STAAR Testing (English I EOC)</p>	<p>COMPUTER SCIENCE 2 (8:54 AM - 10:24 AM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my readiness to participate in the UIL Region 2 	<p>COMPUTER SCIENCE 2 (8:54 AM - 10:24 AM)</p> <p>TBA - STAAR Testing (English II EOC)</p>	<p>COMPUTER SCIENCE 1 - SECTION 1 (8:54 AM - 10:24 AM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of programming logic by creating an algorithm for a

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<p>that will guess a number selected by the user.</p> <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Play "Guess My Number" <p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> N/A <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> Presentation of Project <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> Setup Document Header Setup Outer Loop for "Run Again" <p>Independent Practice: (You Do)</p> <ul style="list-style-type: none"> Program Application <p>Graded Items</p> <ul style="list-style-type: none"> Major Grades (25%) <ul style="list-style-type: none"> Program Minor Grades (25%) <ul style="list-style-type: none"> Program Documentation <div data-bbox="117 1370 455 1446" style="border: 1px solid gray; border-radius: 10px; padding: 5px; margin-top: 10px;"> <p>Standards/Expectations:</p> </div>		<p>Academics Tournament by completing a written test.</p> <p>Independent Practice: (You Do)</p> <ul style="list-style-type: none"> Complete a written exam (45 minutes) <p>We Practice: (We Do)</p> <ul style="list-style-type: none"> Review written exam (45 minutes) <p>Graded Items</p> <ul style="list-style-type: none"> Daily Grades (50%) <ul style="list-style-type: none"> Practice Exam Quiz/Minor Grades (25%) <ul style="list-style-type: none"> Practice Exam Review Participation <div data-bbox="879 1008 1218 1484" style="border: 1px solid gray; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p>Standards/Expectations:</p> <p>c.1.: Creativity and innovation. The student develops products and generates new understandings by extending existing knowledge. The student is expected to:</p> <p>c.2.: Communication and collaboration. The student</p> </div>		<p>second version of the number guesser application.</p> <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> N/A <p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> Review how Number Guesser - Take 1 Worked <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> Presentation of Project <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> Discuss final program flow <p>Independent Practice: (You Do)</p> <ul style="list-style-type: none"> Create flowchart and algorithm <p>Graded Items</p> <ul style="list-style-type: none"> Major Grades (25%) <ul style="list-style-type: none"> Completed Flowchart Completed Algorithm <div data-bbox="1640 1328 1978 1498" style="border: 1px solid gray; border-radius: 10px; padding: 5px; margin-top: 10px;"> <p>Standards/Expectations:</p> <p>c.4.: Critical thinking, problem solving, and</p> </div>

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<p>c.4.: Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:</p> <p>c.K.N.: select the most appropriate algorithm for a defined problem;</p> <p>c.K.S.: develop algorithms to decision-making problems using branching control statements;</p> <p>c.K.T.: develop iterative algorithms and code programs to solve practical problems;</p> <p>EU.4.1: Algorithms are precise sequences of instructions for processes that can be executed by a computer and are implemented using programming languages.</p> <p>LO.4.1.2: Express an algorithm in a language. [P5]</p> <p>c.4.J.: debug and solve problems using error</p>		<p>communicates and collaborates with peers to contribute to his or her own learning and the learning of others. The student is expected to:</p> <p>c.3.: Research and information fluency. The student locates, analyzes, processes, and organizes data. The student is expected to:</p> <p>c.4.: Critical thinking, problem solving, and decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:</p> <p>c.5.: Digital citizenship. The student explores and understands safety, legal, cultural, and societal issues relating to the use of technology and information. The student is expected to:</p> <p>c.6.: Technology operations and concepts. The student understands technology concepts,</p>		<p>decision making. The student uses appropriate strategies to analyze problems and design algorithms. The student is expected to:</p> <p>c.K.N.: select the most appropriate algorithm for a defined problem;</p> <p>c.K.S.: develop algorithms to decision-making problems using branching control statements;</p> <p>c.K.T.: develop iterative algorithms and code programs to solve practical problems;</p> <p>EU.4.1: Algorithms are precise sequences of instructions for processes that can be executed by a computer and are implemented using programming languages.</p> <p>LO.4.1.2: Express an algorithm in a language. [P5]</p> <p>c.4.J.: debug and solve problems using error messages, reference materials, language</p>

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<p>messages, reference materials, language documentation, and effective strategies;</p> <p>EK.4.1.2C: Algorithms described in programming languages can be executed on a computer.</p> <p>EK.4.1.2F: The language used to express an algorithm can affect characteristics such as clarity or readability but not whether an algorithmic solution exists.</p> <p>EK.5.5.1D: Mathematical expressions using arithmetic operators are part of most programming languages.</p>		<p>systems, and operations as they apply to computer science. The student is expected to:</p>		<p>documentation, and effective strategies;</p> <p>EK.4.1.2C: Algorithms described in programming languages can be executed on a computer.</p> <p>EK.4.1.2F: The language used to express an algorithm can affect characteristics such as clarity or readability but not whether an algorithmic solution exists.</p> <p>EK.5.5.1D: Mathematical expressions using arithmetic operators are part of most programming languages.</p>
<p>ROBOTICS I & II - SECTION 1 (10:28 AM - 12:02 PM)</p> <p>Engineering Team</p> <ul style="list-style-type: none"> • Work Punchlist <p>Programming Team</p> <ul style="list-style-type: none"> • Work Punchlist 	<p>ROBOTICS I & II - SECTION 2 (10:28 AM - 12:02 PM)</p> <p>TBA - STAAR Testing (English I EOC)</p>	<p>ROBOTICS I & II - SECTION 2 (10:28 AM - 12:02 PM)</p> <p>Engineering Team</p> <ul style="list-style-type: none"> • Work Punchlist <p>Programming Team</p> <ul style="list-style-type: none"> • Work Punchlist 	<p>ROBOTICS I & II - SECTION 2 (10:28 AM - 12:02 PM)</p> <p>TBA - STAAR Testing (English II EOC)</p>	<p>ROBOTICS I & II - SECTION 1 (10:28 AM - 12:02 PM)</p> <p>Engineering Team</p> <ul style="list-style-type: none"> • Work Punchlist <p>Programming Team</p> <ul style="list-style-type: none"> • Work Punchlist

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<p>Community Engagement Team</p> <ul style="list-style-type: none"> Develop Hospitality Team and Plan <p>Standards/Expectations:</p> <p>c3: The student participates in team projects in various roles. The student is expected to:</p> <p>c3A: explain the importance of teamwork in the field of robotics;</p> <p>c3B: apply principles of effective problem solving in teams to collaboration and conflict resolution; and</p> <p>c3C: demonstrate proper attitudes as a team leader and team member.</p> <p>c1D: recognize the principles of teamwork related to engineering and technology;</p> <p>c3: The student learns and contributes productively as an individual and as a member of a project team.</p>		<p>Community Engagement Team</p> <ul style="list-style-type: none"> Develop Hospitality Team and Plan <p>Standards/Expectations:</p> <p>c3: The student participates in team projects in various roles. The student is expected to:</p> <p>c3A: explain the importance of teamwork in the field of robotics;</p> <p>c3B: apply principles of effective problem solving in teams to collaboration and conflict resolution; and</p> <p>c3C: demonstrate proper attitudes as a team leader and team member.</p> <p>c1D: recognize the principles of teamwork related to engineering and technology;</p> <p>c3: The student learns and contributes productively as an individual and as a member of a project team.</p>		<p>Community Engagement Team</p> <ul style="list-style-type: none"> Develop Hospitality Team and Plan <p>Standards/Expectations:</p> <p>c3: The student participates in team projects in various roles. The student is expected to:</p> <p>c3A: explain the importance of teamwork in the field of robotics;</p> <p>c3B: apply principles of effective problem solving in teams to collaboration and conflict resolution; and</p> <p>c3C: demonstrate proper attitudes as a team leader and team member.</p> <p>c1D: recognize the principles of teamwork related to engineering and technology;</p> <p>c3: The student learns and contributes productively as an individual and as a member of a project team.</p>

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<p>The student is expected to:</p> <p>c3A: demonstrate an understanding of and discuss how teams function;</p> <p>c3B: apply teamwork to solve problems;</p> <p>c3C: follow directions and decisions of responsible individuals of the project team;</p> <p>c3D: participate in establishing team procedures and team norms; and</p>		<p>The student is expected to:</p> <p>c3A: demonstrate an understanding of and discuss how teams function;</p> <p>c3B: apply teamwork to solve problems;</p> <p>c3C: follow directions and decisions of responsible individuals of the project team;</p> <p>c3D: participate in establishing team procedures and team norms; and</p>		<p>The student is expected to:</p> <p>c3A: demonstrate an understanding of and discuss how teams function;</p> <p>c3B: apply teamwork to solve problems;</p> <p>c3C: follow directions and decisions of responsible individuals of the project team;</p> <p>c3D: participate in establishing team procedures and team norms; and</p>
<p>COMPUTER SCIENCE 1 - SECTION 2 (1:06 PM - 2:36 PM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of Python by developing a program that will guess a number selected by the user. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Play "Guess My Number" 	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 2 (2:40 PM - 3:30 PM)</p> <p>TBA - STAAR Testing (English I EOC)</p>	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 2 (2:40 PM - 3:30 PM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of stable truss design and build a model bridge. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Boot-Up Desktop Computer 	<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 2 (2:40 PM - 3:30 PM)</p> <p>TBA - STAAR Testing (English II EOC)</p>	<p>COMPUTER SCIENCE 1 - SECTION 2 (1:06 PM - 2:36 PM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of programming logic by creating an algorithm for a second version of the number guesser application. <p>Warm-Up Assignment:</p>

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<p>algorithms. The student is expected to:</p> <p>c.K.N.: select the most appropriate algorithm for a defined problem;</p> <p>c.K.S.: develop algorithms to decision-making problems using branching control statements;</p> <p>c.K.T.: develop iterative algorithms and code programs to solve practical problems;</p> <p>EU.4.1: Algorithms are precise sequences of instructions for processes that can be executed by a computer and are implemented using programming languages.</p> <p>LO.4.1.2: Express an algorithm in a language. [P5]</p> <p>c.4.J.: debug and solve problems using error messages, reference materials, language documentation, and effective strategies;</p>		<p>5: The student describes the factors that affect the progression of technology and the potential intended and unintended consequences of technological advances. The student is expected to:</p> <p>5a: describe how technology has affected individuals, societies, cultures, economies, and environments</p> <p>5c: describe how and why technology progresses</p> <p>6: The student thinks critically and applies fundamental principles of system modeling and design to multiple design projects. The student is expected to:</p> <p>6b: identify the chemical, mechanical, and physical properties of engineering materials</p> <p>9: The student demonstrates the ability to function as a team member while completing</p>		<p>algorithms. The student is expected to:</p> <p>c.K.N.: select the most appropriate algorithm for a defined problem;</p> <p>c.K.S.: develop algorithms to decision-making problems using branching control statements;</p> <p>c.K.T.: develop iterative algorithms and code programs to solve practical problems;</p> <p>EU.4.1: Algorithms are precise sequences of instructions for processes that can be executed by a computer and are implemented using programming languages.</p> <p>LO.4.1.2: Express an algorithm in a language. [P5]</p> <p>c.4.J.: debug and solve problems using error messages, reference materials, language documentation, and effective strategies;</p>

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<p>EK.4.1.2C: Algorithms described in programming languages can be executed on a computer.</p> <p>EK.4.1.2F: The language used to express an algorithm can affect characteristics such as clarity or readability but not whether an algorithmic solution exists.</p> <p>EK.5.5.1D: Mathematical expressions using arithmetic operators are part of most programming languages.</p>		<p>a comprehensive project. The student is expected to:</p> <p>9d: develop and test the model for the project</p>		<p>EK.4.1.2C: Algorithms described in programming languages can be executed on a computer.</p> <p>EK.4.1.2F: The language used to express an algorithm can affect characteristics such as clarity or readability but not whether an algorithmic solution exists.</p> <p>EK.5.5.1D: Mathematical expressions using arithmetic operators are part of most programming languages.</p>
<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 2 (2:40 PM - 3:30 PM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of stable truss design and build a model bridge. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Boot-Up Desktop Computer 				<p>PRINCIPLES OF APPLIED ENGINEERING - SECTION 2 (2:40 PM - 3:30 PM)</p> <p>Learning Outcomes:</p> <ul style="list-style-type: none"> I will demonstrate my understanding of stable truss design and build a model bridge. <p>Warm-Up Assignment:</p> <ul style="list-style-type: none"> Boot-Up Desktop Computer

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<p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> Review Project Guidelines <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> N/A <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> N/A <p>Independent Practice: (You Do)</p> <ul style="list-style-type: none"> Lab 13-3 <p>Graded Items</p> <ul style="list-style-type: none"> Daily Grades (50%) <ul style="list-style-type: none"> Lab 13-3 (Due Friday) <div data-bbox="121 922 455 1435" style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><i>Standards/Expectations:</i></p> <p>3: The student presents conclusions, research findings, and designs using a variety of media throughout the course. The student is expected to:</p> <p>3a: use clear and concise written, verbal, and visual communication techniques</p> </div>				<p>Review of Prior Knowledge:</p> <ul style="list-style-type: none"> Review Project Guidelines <p>Introduction to New Material: (I Do)</p> <ul style="list-style-type: none"> N/A <p>Guided Practice: (We Do)</p> <ul style="list-style-type: none"> N/A <p>Independent Practice: (You Do)</p> <ul style="list-style-type: none"> Lab 13-3 <p>Graded Items</p> <ul style="list-style-type: none"> Daily Grades (50%) <ul style="list-style-type: none"> Lab 13-3 (Due Friday) <div data-bbox="1642 922 1976 1435" style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><i>Standards/Expectations:</i></p> <p>3: The student presents conclusions, research findings, and designs using a variety of media throughout the course. The student is expected to:</p> <p>3a: use clear and concise written, verbal, and visual communication techniques</p> </div>

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<p>5: The student describes the factors that affect the progression of technology and the potential intended and unintended consequences of technological advances. The student is expected to:</p> <p>5a: describe how technology has affected individuals, societies, cultures, economies, and environments</p> <p>5c: describe how and why technology progresses</p> <p>6: The student thinks critically and applies fundamental principles of system modeling and design to multiple design projects. The student is expected to:</p> <p>6b: identify the chemical, mechanical, and physical properties of engineering materials</p> <p>9: The student demonstrates the ability to function as a team member while completing</p>				<p>5: The student describes the factors that affect the progression of technology and the potential intended and unintended consequences of technological advances. The student is expected to:</p> <p>5a: describe how technology has affected individuals, societies, cultures, economies, and environments</p> <p>5c: describe how and why technology progresses</p> <p>6: The student thinks critically and applies fundamental principles of system modeling and design to multiple design projects. The student is expected to:</p> <p>6b: identify the chemical, mechanical, and physical properties of engineering materials</p> <p>9: The student demonstrates the ability to function as a team member while completing</p>

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<p>a comprehensive project. The student is expected to:</p> <p>9d: develop and test the model for the project</p>				<p>a comprehensive project. The student is expected to:</p> <p>9d: develop and test the model for the project</p>