

# JA Be Entrepreneurial Creative Problem Solving

Session Description	Social Studies and Financial Literacy Standards	Work Readiness Standards	Common Core ELA
<p><b>Session One: Identifying the Problem</b></p> <p>Students are oriented to problem/solution thinking practices and introduced to the Design Thinking process of creative problem solving. They explore the first step (Empathize) that teaches them to look at problems as human-centered, from the customer’s perspective.</p> <p><b>Students will:</b></p> <ul style="list-style-type: none"> <li>Describe how brainstorming several ideas and then picking the best options will lead to creative problem solving.</li> <li>Describe the Design Thinking model and the steps involved in the process.</li> <li>Describe the advantages of applying the Design Thinking model to new ideas or problem solving.</li> <li>Describe the Empathize step in the Design Thinking model.</li> <li>Demonstrate how an empathy map can be used to identify a user’s needs.</li> </ul>	<p>FL.I. 8. Entrepreneurs take the risk of starting a business because they expect to earn profits as their reward, despite the fact that many new businesses can and do fail. Some entrepreneurs gain satisfaction from working for themselves.</p>	<p>STANDARD 4</p> <p>The student demonstrates a willingness to work.</p> <p>4.1 Has a positive attitude toward work, speaks positively about work, and approaches responsibilities with a positive attitude.</p> <p>4.2 Treats co-workers with courtesy and respect.</p> <p>4.3 Strives to improve, develop, and/or engage in work skills and actively participates in vocational activities.</p> <p>4.4 Accepts and demonstrates responsibilities on time and to expectations with a positive attitude;</p>	<p><b>Grades 9–10</b> RI.2,4,8 W.4,7 SL.1,2,3,4,6 L.1,2,3,4,6</p> <p><b>Grades 11–12</b> RI.2,4,6 SL.1,2,3,4,6 L.1,2,3,4,6 W 4,7 RH 9-12 2,4, 5,7,9 WhST4,6,7,9</p>
<p><b>Session Two: Exploring Solutions</b></p> <p>Students focus on the second and third steps of the Design Thinking process (Define and Ideate). They summarize the root cause of the issue in a problem statement and then use brainstorming techniques to generate viable ideas as solutions.</p> <p><b>Students will:</b></p> <ul style="list-style-type: none"> <li>Describe the Define step in the Design Thinking model.</li> <li>Demonstrate how to write a short, clear problem statement that reflects the problem to be solved.</li> <li>Describe the Ideate step in the Design Thinking model.</li> <li>Apply ideation methods by brainstorming ideas in a fast-paced activity.</li> </ul>	<p>NA</p>	<p>STANDARD 4</p> <p>The student demonstrates a willingness to work.</p> <p>4.1 Has a positive attitude toward work, speaks positively about work, and approaches responsibilities with a positive attitude.</p> <p>4.2 Treats co-workers with courtesy and respect.</p> <p>4.3 Strives to improve, develop, and/or engage in work skills and actively participates in vocational activities.</p> <p>Standard 6 6.8 Identify, understand, and solve workplace problems.</p>	<p><b>Grades 9–10</b> RI. 2,4,8 W.4 SL. 1,2,3,4,6 L. 1,2,3,4,6</p> <p><b>Grades 11–12</b> RI. 2,4,8 SL. 1,2,3,4,6 L. 1,2,3,4,6 W 4 RH 9-12 1,2,4,5,6,7,9 WhST 1, 4,6,9</p>

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<p><b>Session Three: Prototyping the Solution</b></p> <p>Students use rapid prototyping techniques to create an inexpensive model of their solution for customer review and feedback. This process teaches the importance of keeping customers involved in the process without large investments of time or money.</p> <p><b>Students will:</b></p> <ul style="list-style-type: none"> <li>Describe the Prototype step in the Design Thinking model.</li> <li>Construct a prototype based on a problem statement and a brainstormed solution to the problem.</li> </ul>	NA	<p><b>STANDARD 7</b></p> <p>The student is made aware of and/or utilizes common workplace technology.</p>	<p><b>Grades 9–10</b> RI.2,4 W. 4 SL.1,2,3,6 L. 1,2,3,4,6</p> <p><b>Grades 11–12</b> RI.4,8 SL. 1,2,3,6 L. 1,2,3,4,6 W 4 RH 9-12 1,2,4,5,7 WhST 4,6</p>
<p><b>Session Four: Testing the Solution</b></p> <p>Students devise testing plans to validate the design and function of their prototyped ideas with customer participants. User testing emphasizes the importance of ongoing improvement cycles in the Design Thinking model.</p> <p><b>Students will:</b></p> <ul style="list-style-type: none"> <li>Define the Test step in the Design Thinking model.</li> <li>Develop a testing plan for a given product and target audience.</li> </ul>	NA	<p><b>STANDARD 8</b></p> <p>The student demonstrates ability to effectively interact and respect coworkers.</p> <p>8.1 Interacts in an appropriate manner with co-workers.</p> <p>8.2 Demonstrates effective communication skills in working with customers and clients.</p> <p>8.3 Develops a working relationship with co-workers;</p>	<p><b>Grades 9–10</b> RI. 2,4 W. 2,4,7 SL.1,2,4,6 L. 1,2,3,4,6</p> <p><b>Grades 11–12</b> RI.4,8 SL. 1,2,3,4,6 L. 1,2,3,4,6</p> <p>RH 9-12 1,4,5,7 WhST 4,6,7,9</p>
<p><b>Session Five: Applying Design Thinking (Optional, Self-Guided)</b></p> <p>Students complete a cumulative Design Thinking project to demonstrate comprehension and execution of the creative problem-solving process.</p> <p><b>Students will:</b></p> <ul style="list-style-type: none"> <li>Use the Design Thinking model to create a solution to an identified problem.</li> <li>Produce an artifact for each step of the Design Thinking process to demonstrate their work.</li> </ul>	<p>FL.I. 8. Entrepreneurs take the risk of starting a business because they expect to earn profits as their reward, despite the fact that many new businesses can and do fail. Some entrepreneurs gain satisfaction from working for themselves.</p>	<p><b>STANDARD 6</b></p> <p>6.2 Interprets general work-related vocabulary.</p> <p>6.3 Demonstrates the ability to apply or transfer skills learned in one job situation to another.</p> <p>6.8 Identify, understand, and solve workplace problems.</p>	<p><b>Grades 9–10</b> RI.2,4 W. 2,4,7 SL.2,3,4,6 L.1,2,3,4,6</p> <p><b>Grades 11–12</b> RI.2,4 SL. 2,3,4,6 L. .1,2,3,4,6</p> <p>RH 9-12 1-9 WhST 1.4.6.7.9</p>