

# The Creative Problem Solving Design Process

A conceptual visual arts lesson planning guide combining National Visual Art Standards + Bloom's Learning Levels or DOK's + Kansas Career and College Ready (Common Core) Standards within a creative problem solving framework!

The Process: From <b>The Universal Traveler</b> , Koberg and Bagnall, 1974.		THE PROBLEM What is it?	ANALYZING Where are we going?	DEFINING What is necessary?	IDEATING What are the possibilities?	SELECTING What is the best solution?	MAKING How do I make this happen?	EVALUATING How'd I do?
<b>Higher Level Thinking Skills:</b> Bloom's Taxonomy, DOK's, Disciplinary Action Verbs taken from <b>Disciplinary Literacy</b> , Piercy and Piercy, 2011.		Understanding Inferring Questioning Predicting Examining Connecting Legitimizing Brainstorming Communicating	Brainstorming Analyzing Evaluating Exploring Questioning Understanding Monitoring Inferring Reasoning Evaluating Applying Resoning Legitimizing Judging Communicating	Exploring Questioning Understanding Monitoring Inferring Reasoning Evlauating Applying Legitimizing Judging Predicting	Brainstorming Questioning Understanding Monitoring Inferring Reasoning Evaluating Applying Legitimizing Judging Predicting Communicating Creating	Questioning Judging Evaluating Applying Monitoring Reasoning Predicting Legitimizing Synthesizing Communicating	Creating Synthesizing Applying Evaluating Self-Monitoring Communicating	Analyzing Evlauating Judging Legitimizing Connecting Communicating
National Visual Arts Standards <a href="http://www.arteducators.org">www.arteducators.org</a>	<b>Process Components</b> Investigate, Plan, Percieve, Share, Analyze, Relate, Reflect	Analyze, Investigate, Plan, Reflect, Share, Perceive, Interpret, Relate	Select, Perceive, Interpret, Plan, Reflect, Relate, Analyze, Synthesize, Share	Plan, Make, Investigate, Perceive, Relate, Interpret, Analyze, Reflect, Share, Synthesize	Select, Perceive, Interpret, Plan, Reflect, Relate, Analyze, Synthesize, Refine	Plan, Make, Investigate, Refine, Perceive, Relate, Interpret, Analyze, Reflect, Synthesize	Relate, Share, Analyze, Interpret, Reflect, Perceive, Synthesize	
	<b>Visual Arts Processes with Anchor Standards</b> (Please refer to your individual district, state, and national performance standards recommended for student assessment!) <a href="http://www.a">www.a</a>	<b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate <b>Connecting</b> Relate artistic ideas and works with societal,cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal exp. to make art <b>Creating</b> Organize and develop artistic ideas and work	<b>Creating</b> Organize and develop artistic ideas and work <b>Connecting</b> Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal experiences to make art <b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate	<b>Creating</b> Organize and develop artistic ideas and work Generate and conceptualize ideas and work Refine artistic work <b>Presenting</b> Develop and refine work for presentation Convey meaning <b>Connecting</b> Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal experiences to make art <b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate	<b>Creating</b> Organize and develop artistic ideas and work Generate and conceptualize ideas and work Refine artistic work <b>Presenting</b> Develop and refine work for presentation Convey meaning <b>Connecting</b> Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal experiences to make art <b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate	<b>Creating</b> Organize and develop artistic ideas and work Generate and conceptualize ideas and work Refine artistic work <b>Presenting</b> Anayze, interpret, and select artistic work for presentation. Develop and refine work for presentation Convey meaning <b>Connecting</b> Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal experiences to make art <b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate	<b>Creating</b> Organize and develop artistic ideas and work Generate and conceptualize ideas and work Refine and complete artistic work <b>Presenting</b> Anayze, interpret, and select artistic work for presentation. Develop and refine work for presentation Convey meaning <b>Connecting</b> Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal experiences to make art <b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate	<b>Creating</b> Refine and complete artistic work <b>Presenting</b> Develop and refine work for presentation Convey meaning <b>Connecting</b> Relate artistic ideas and works with societal, cultural, and historical context to deepen understanding Synthesize and relate knowledge and personal experiences to make art <b>Responding</b> Percieve and analyze works Interpret intent and meaning Apply criteria to evaluate
<b>Kansas Career and College Ready Standards</b> (Please refer to your individual district, state, and national performance standards recommended for student assessment!) <a href="http://www.ksde.org">www.ksde.org</a>		Make logical inferences Determine central ideas or theme Summarize the details Engage in converstions with diverse partners, audience, and clients Evaluate point of view Make sense of the problem Plan the investigation Build strong content knowledge Determine audience, client Use speech/writing appropriate to task Aquire both academic and visual art specific words and phrases	Analyze central themes Summarize the details Analyze meaning and choices to shape meaning Analyze how parts shape whole Analyze content and styles Evaluate arguments and claims Analyze how events and ideas develop and interact Read literary and informational texts Gather info from multiple credible sources, value the evidence for analysis, reflection, and research Ask questions and answer them Develop writing appropriate for the task Use technology to collaborate	Make logical inferences Analyze and interpret data Determine central ideas or themes Ask questions and define problems Develop writing appropriate for the task Use information from multiple sources Integrate and evaluate found info Gain independence with visual arts vocabulary Integrate and evaluate info presented in diverse formats: visually, orally, and quantitatively	Construct explanations and design possible solutions Plan and carry out results of investigation Demonstrate independence and task purpose Integrate, apply, and synthesize results of investigation Reason abstractly and quantitatively Engage in conversations Use technology to communicate idea Respond to demands and constraints	Analyze choices, value evidence Evaluate arguments and claims Synthesize how events and ideas develop and interact Write narratives to explain ideas and convey complex ideas and information clearly Discuss choice, defend choice Examine and convey complex ideas and information clearly Engage in converstions Respond to demands and constraints	Synthesize meaning and choices to shape meaning Synthesize how parts shape whole Synthesize content and styles Evaluate arguments and claims Synthesize how events and ideas develop and interact Write narratives to explain ideas and convey complex ideas and information clearly Use speech and writing appropriate to task Present information in a well developed manner with grammar and conventions	Summarize the details Analyze meaning and choices to shape meaning Analyze how parts shape whole Analyze content and styles Analyze how events and ideas develop and interact Evaluate arguments and claims Analyze and compare how works address similar themes Develop writing/presentation appropriate for the task Use speech and writing appropriate to the task Use technology for tasks Evaluate other's point of view Present appropriate to audience Understand other's perspectives Engage in conversations
<b>21st Century Themes for Learners and Learning Environments</b> <a href="http://www.ksde.org/learn21">www.ksde.org/learn21</a>		Communicating Relevance/Rigor Responsive Culture Critical Thinking Problem Solving Leadership and Responsibility Social and Cross Cultural Skills Collaboration/Relationships Media Library/Information/Tech Productivity	Communicating Relevance/Rigor Responsive Culture Critical Thinking Problem Solving Accountability Leadership Responsibility Initialtive and Direction Flexibility and Adaptability Collaboration/Relationships Media Library/Information	Communicating Relevance/Rigor/results Responsive Culture Critical Thinking Problem Solving Accountability Leadership Responsibility Initialtive and Direction Innovation and Creativity Collaboration/Relationships Productivity	Communicating Relevance/Rigor/Results Responsive Culture Critical Thinking Problem Solving Productivity Accountability Responsibility Flexibility and Adaptability Collaboration/Relationships Initiative and Self-Direction Innovation	Communicating Relevance/Rigor/Results Responsive Culture Critical Thinking Problem Solving Flexibility and Adaptability Accountability Collaboration/Relationships Initiative and Self-Direction Innovation Productivity	Communicating Relevance Responsive Culture Critical Thinking Problem Solving Productivity Collaboration/Relationships Flexibility and Adaptability Initiative and Self-Direction Leadership and Responsibility Innovation	Communicating Relevance/Rigor/Results Responsive Culture Critical Thinking Problem Solving Accountability Employment and Career Dev. Leadership and Responsibility Information, Technology Responsive Culture Innovation