KINDERGARTEN ENRICHMENT

Course Description:

The kindergarten enrichment course is a systematized thinking skills program designed to introduce students to different ways of thinking. It is aligned to the higher levels of Benjamin Bloom's Taxonomy with lessons in convergent analysis, divergent synthesis, and critical evaluation. These are the problem solving skills and strategies that are critical for all children to know and feel comfortable using throughout their lives. Lessons are specifically designed to target one thinking strategy at a time. They are introduced through stories and examples in order to build on prior knowledge. Tasks and problem solving challenges involve multisensory activities in order to correlate with the multiple intelligences as defined by Howard Gardner. Recognizing that there is a diversity of ways in which children internalize information, the lessons engage children through a mixture of approaches. This program is offered one period per week to all kindergarten students. It provides opportunities for learners with different thinking strengths to shine.

Suggested Course Sequence:

Unit#1:	Divergent/Creative Thinking/Inventor Thinking	10 weeks
Unit#2:	Convergent/Analytical Thinking/Detective Thinking	10 weeks
Unit#3:	Visual/Spatial Thinking/Magician Thinking	10 weeks
Unit#4:	Evaluative/Critical Thinking/Judge Thinking	10 weeks

Unit Overview		
Content Area:	Enrichment	
Unit Title:	Unit 1: Divergent/Creative Thinking	
Grade Level:	Kindergarten	

Unit Summary: Students will list responses to questions and brainstorm ideas. Students will practice fluidity and flexibility in their thinking. All answers are acceptable including creative ideas that are sometimes humorous. Collaboration, elaboration, and cooperation are encouraged and necessary to fully engage in lessons.

Interdisciplinary

Connections: Kindergarteners will be exposed to short stories, problem-solving scenarios, and cooperative learning tasks aligned to the higher levels of Bloom's Taxonomy. Lessons are presented in developing convergent analysis, divergent synthesis, and evaluation skills, which prepare students for achievement at any grade level or discipline.

21st Century

Themes and Skills:

- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
- CRP5. Consider the environmental, social and economic impacts of decisions.
- CRP6. Demonstrate creativity and innovation.

	Learning Targets
Standards (Content and Techr	
CPI#:	Statement:
8.1.2.D.1	Develop an understanding of ownership of print and non-print information.
8.1.P .E.1	Use the Internet to explore and investigate questions with a teacher's support.
8.1.2.E.1	Use digital tools and online resources to explore a problem or issue.
8.1.2.F.1	Use geographic mapping tools to plan and solve problems.
8.2.2.A.1	Define products produced as a result of technology or of nature.
8.2.2.B.1	Identify how technology impacts or improves life.
8.2.2.C.1	Brainstorm ideas on how to solve a problem or build a product.
8.2.2.D.1	Collaborate and apply a design process to solve a simple problem from everyday experiences.
CCSS.ELA-Literacy.RF.K.4	Read emergent-reader texts with purpose and understanding.
CCSS.ELA-Literacy.RL.K.1	With prompting and support, ask and answer questions about key details in a text.
CCSS.ELA-Literacy.RL.K.10	Actively engage in group-reading activities with purpose and understanding.
CCSS.ELA-Literacy.RI.K.7	With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts).
CCSS.ELA-Literacy.RI.K.10	Actively engage in group reading activities with purpose and understanding
CCSS.ELA-Literacy.W.K.2	Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.
CCSS.ELA-Literacy.W.K.8	With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question.
CCSS.ELA-Literacy.SL.K.1	Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.
CCSS.ELA-Literacy.SL.K.3	Ask and answer questions in order to seek help, get information, or clarify something that is not understood.
CCSS.ELA-Literacy.SL.K.6	Speak audibly and express thoughts, feelings, and ideas clearly.
CCSS.ELA-Literacy.L.K.6	Use words and phrases acquired through conversations, reading and being read to, and responding to texts.
CCSS.Math.Content.K.CC.B.4	Understand the relationship between numbers and quantities; connect counting to cardinality.
CCSS.Math.Content.K.CC.C.6	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.

CCSS.Math.Content.K.MD.A.2	Directly compare two objects with	n a measurable attribute in common, to see	
	which object has "more of"/"less of" the attribute, and describe the		
	difference. For example, directly compare the heights of two children and		
	describe one child as taller/shorte	r.	
CCSS.Math.Content.K.MD.B.3	Classify objects into given categories; count the numbers of objects in each		
	category and sort the categories by count.		
CCSS.Math.Content.K.G.A.1	Describe objects in the environment using names of shapes, and describe the		
	relative positions of these objects using terms such as above, below, beside, in		
	front of, behind, and next to.		
CCSS.Math.Content.K.G.B.6	Compose simple shapes to form larger shapes. For example, "Can you join		
	these two triangles with full sides touching to make a rectangle?"		
Unit Essential Question(s):		Unit Enduring Understandings:	
How can we use divergent/creative thinking?		Students will recognize thinking can be	
		fluid and flexible in order to solve	

Unit Learning Targets/Objectives:

Students will...

- Identify that there are many correct responses/possibilities (fluency).
- Identify that ideas may begin from a common "stem" but branch in different directions from there (flexibility).
- Identify all ideas are welcomed, even those that seem silly at the time (originality).
- Recognize that it is important to see things creatively which helps produce may possibilities in ordinary events, situations, and objects.
- Identify that it is encouraged to piggyback ideas on those from others (elaboration).

Evidence of Learning

Formative Assessments:

- Teacher observation data
- Task completion checks
- Student feedback (thumbs up/down, responses to questions/discussions)

Summative/Benchmark Assessment(s):

- Performance Series testing
- Teacher recommendations
- Cognitive Skills Assessment

Resources/Materials:

- Primary Education Thinking Skills K-3
- Discovery Education
- Teacher created resources for lesson plans

Modifications:

• Special Education Students

- Allow errors
- Rephrase questions, directions, and explanations
- Allow extended time to answer questions, and permit drawing, as an explanation

• At-Risk Students

problems.

- Provide extended time to complete tasks
- Consult with Guidance Counselors and follow I&RS procedures/action

- Accept participation at any level, even one word
- Consult with Case Managers and follow IEP accommodations/modifications

• English Language Learners

- Assign a buddy, same language or English speaking
- Allow errors in speaking
- Rephrase questions, directions, and explanations
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- Accept participation at any level, even one word

plans

- Consult with classroom teacher(s) for specific behavior interventions
- Provide rewards as necessary

Gifted and Talented Students

- Provide extension activities
- Build on students' intrinsic motivations
- Consult with parents to accommodate students' interests in completing tasks at their level of engagement

Lesson Plans			
Lesson Name/Topic	Lesson Objective(s)	Time frame (day(s) to complete)	
Lesson 1	Introduction of Inventor Thinking	2 Class Periods	
Alexander Graham Bell and	(divergent/creative		
Ten Black Dots	brainstorming)		
Lesson 2	Continuation of Inventor Thinking	2 class periods	
The Wright Brothers and	using another example: How has		
Ten Black Dots	the airplane changed over the		
	years?		
	Application of divergent thinking		
	through student creation of black		
	dots picture.		
Lesson 3	Encouraging students to	1 class period	
I Can be an Inventor!	participate in the Highland School		
	Invention Convention		
Lesson 4	Continuation of Inventor Thinking:	2 class periods	
Thomas Edison and Curious	Analysis of impact the light bulb		
George's ABC's	has on their life through drawing.		
	"Seeing" letters in a whole new		
	light.		
Lesson 5	Continuation of Inventor Thinking:	1 class period	
Combination of <u>Ten Black</u>	Combining black dots and letters		
<u>Dots</u> and <u>Curious George's</u>	to create something new.		
ABC's			
Lesson 6	Summary, application, and	2 class periods	
Meggie Moon and Not a Box	synthesis of brainstorming.		

Teacher Notes:

Additional Resources

Click links below to access additional resources used to design this unit:

Unit Overview		
Content Area:	Enrichment	
Unit Title:	Unit 2: Convergent/Analytical Thinking	
Grade Level:	Kindergarten	

Unit Summary: Students will demonstrate logical reasoning by identifying and using clues to determine the correct solution to a problem. Students will be encouraged to see interrelationships between clues, utilize outside knowledge and to defer judgment until all clues have been collected.

Interdisciplinary

Connections: Kindergarteners will be exposed to short stories, problem-solving scenarios, and cooperative learning tasks aligned to the higher levels of Bloom's Taxonomy. Lessons are presented in developing convergent analysis, divergent synthesis, and evaluation skills, which prepare students for achievement at any grade level or discipline.

21st Century

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- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.
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8.2.2.A.1	Define products produced as a result of technology or of nature.
8.2.2.B.1	Identify how technology impacts or improves life.
8.2.2.C.1	Brainstorm ideas on how to solve a problem or build a product.
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CCSS.ELA-Literacy.SL.K.3	Ask and answer questions in order to seek help, get information, or clarify something that is not understood.
CCSS.ELA-Literacy.SL.K.6	Speak audibly and express thoughts, feelings, and ideas clearly.
CCSS.ELA-Literacy.L.K.6	Use words and phrases acquired through conversations, reading and being read to, and responding to texts.
CCSS.Math.Content.K.CC.B.4	Understand the relationship between numbers and quantities; connect counting to cardinality.
CCSS.Math.Content.K.CC.C.6	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.

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	which object has "more of"/"less of" the attribute, and describe the	
	difference. For example, directly compare the heights of two children and	
	describe one child as taller/shorter.	
CCSS.Math.Content.K.MD.B.3	Classify objects into given categories; count the numbers of objects in each	
	category and sort the categories by count.	
CCSS.Math.Content.K.G.A.1	Describe objects in the environment using names of shapes, and describe the	
	relative positions of these objects using terms such as above, below, beside, in	
	front of, behind, and next to.	
CCSS.Math.Content.K.G.B.6	Compose simple shapes to form larger shapes. For example, "Can you join	
	these two triangles with full sides touching to make a rectangle?"	

these two thangles with full slaces touching to make a rectangle:		
Unit Essential Question(s):	Unit Enduring Understandings:	
How can we use convergent/analytical thinking?	 Students will recognize that interrelationships, outside knowledge and deferring judgment are necessary in order to make accurate conclusions. There is only one right answer to convergent thinking problems. 	

Unit Learning Targets/Objectives:

Students will...

- Identify clues and attributes of problem situations.
- Employ logical reasoning in order to deduce solutions.
- Identify interrelationships between clues. (common or unique attributes)
- Defer judgement until all appropriate information is gathered. (patience)
- Identify that it is encouraged to share ideas from others and to utilize outside knowledge. (collaboration)

Evidence of Learning

Formative Assessments:

- Teacher observation data
- Task completion checks
- Student feedback (thumbs up/down, responses to questions/discussions)

Summative/Benchmark Assessment(s):

- Performance Series testing
- Teacher recommendations
- Cognitive Skills Assessment

Resources/Materials:

- Primary Education Thinking Skills K-3
- Discovery Education
- Teacher created resources for lesson plans

Modifications:

• Special Education Students

- Allow errors
- Rephrase questions, directions, and explanations
- Allow extended time to answer questions, and permit

At-Risk Students

- Provide extended time to complete tasks
- Consult with Guidance

	drawing, as an explanation	Counselors and follow I&RS
	 Accept participation at any level, even one word 	procedures/action plans
	 Consult with Case Managers and follow IEP 	 Consult with classroom teacher(s)
	accommodations/modifications	for specific behavior
•	English Language Learners	interventions
	- Assign a buddy, same language or English speaking	 Provide rewards as necessary
	- Allow errors in speaking	 Gifted and Talented Students
	- Rephrase questions, directions, and explanations	 Provide extension activities
	- Allow extended time to answer questions, and permit	 Build on students' intrinsic
	drawing, as an explanation	motivations
	- Accept participation at any level, even one word	 Consult with parents to
		accommodate students' interests

in completing tasks at their level

of engagement

	Lesson Plans	
Lesson Name/Topic	Lesson Objective(s)	Time frame (day(s) to complete)
Lesson 1	Introduction to Detective Thinking	1 class periods
Detectives and How Will We	(convergent/analytical focusing)	
Get to the Beach?	Using clues to solve a problem	
Lesson 2	Continuation of Detective	2 class periods
Analogies and Brown Bear,	Thinking: Finding similar	
Brown Bear, What Do You	attributes/characteristics	
See?	Solving "mysteries" using	
	deductive reasoning	
Lesson 3	Continuation of Detective	1 class periods
Guess Where I Live?	Thinking: Put all the clues together	
	to deduce the ONE correct answer	
	to the problem	
	Using prior knowledge to help	
	solve a problem	
Lesson 4	Continuation of Detective	1 class periods
Who Stole the Gold?	Thinking: Put all the clues together	
	to deduce the ONE correct answer	
	to the mystery	
Lesson 5	Continuation of Detective	1 class periods
It Was Not Me!	Thinking: Put all the clues together	
	to deduce the ONE correct answer	
	to the problem	
Lesson 6	Continuation of Detective	2 class periods
Primarily Thinking	Thinking: Classifying common	
	qualities; Identifying cause of an	
	outcome (cause and effect)	
Lesson 7	Application of Detective Thinking	1 class period
GUESS WHO?	Use attributes to filter out	
	incorrect solutions (using	
	attributes "in reverse") while	
	playing with a partners.	

Teacher Notes:	
Additional Resources Click links below to access additional resources used to design this unit:	

	Unit Overview
Content Area:	Enrichment
Unit Title:	Unit 3: Visual/Spatial Thinking
Grade Level:	Kindergarten

Unit Summary: Students will manipulate shapes mentally in order to achieve a solution. Students will develop memories for visual details, be involved in hands-on building of three-dimensional objects, and utilize graphic organizers to solve problems.

Interdisciplinary

Connections: Kindergarteners will be exposed to short stories, problem-solving scenarios, and cooperative learning tasks aligned to the higher levels of Bloom's Taxonomy. Lessons are presented in developing convergent analysis, divergent synthesis, and evaluation skills, which prepare students for achievement at any grade level or discipline.

21st Century

Themes and Skills:

CRP1. Act as a responsible and contributing citizen and employee.

- CRP2. Apply appropriate academic and technical skills.
- CRP3. Attend to personal health and financial well-being.
- CRP4. Communicate clearly and effectively and with reason.
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Learning Targets	
Standards (Content and Techn	ology):
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CCSS.ELA-Literacy.RF.K.4	Read emergent-reader texts with purpose and understanding.
CCSS.ELA-Literacy.RL.K.1	With prompting and support, ask and answer questions about key details in a text.
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CCSS.ELA-Literacy.RI.K.7	With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts).
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CCSS.ELA-Literacy.W.K.2	Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.
CCSS.ELA-Literacy.W.K.8	With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question.
CCSS.ELA-Literacy.SL.K.1	Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.
CCSS.ELA-Literacy.SL.K.3	Ask and answer questions in order to seek help, get information, or clarify something that is not understood.
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CCSS.ELA-Literacy.L.K.6	Use words and phrases acquired through conversations, reading and being read to, and responding to texts.
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	these two triangles with full sides touching to make a rectangle?"	
Unit Essential Question(s): Unit Enduring Understanding		Unit Enduring Understandings:
How can we use visual/spa	itial thinking?	Students will recognize thinking can be assisted through both hands-on and

- mental manipulation of objects.
- Visual patterns are predictable
- Tolerance for ambiguity and perseverance are essential components for flexible, high-level visual thinking.

Unit Learning Targets/Objectives:

Students will...

- Manipulate shapes in order to achieve solutions
- Develop memories for visual details
- Practice hands-on activities to build in 3D
- Utilize graphic organizers (such as Venn Diagrams) to solve problems
- Identify predictable visual patterns
- Employ both convergent and divergent thinking strategies with spatial perception activities

Evidence of Learning

Formative Assessments:

- Teacher observation data
- Task completion checks
- Student feedback (thumbs up/down, responses to guestions/discussions)

Summative/Benchmark Assessment(s):

- Performance Series testing
- Teacher recommendations
- Cognitive Skills Assessment

Resources/Materials:

- Primary Education Thinking Skills K-3
- **Discovery Education**
- Teacher created resources for lesson plans

Modifications:

• Special Education Students

- Allow errors
- Rephrase questions, directions, and explanations
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- Accept participation at any level, even one word
- Consult with Case Managers and follow IEP accommodations/modifications

• English Language Learners

- Assign a buddy, same language or English speaking
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At-Risk Students

- Provide extended time to complete tasks
- Consult with Guidance Counselors and follow I&RS procedures/action plans
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- Provide extension activities
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	Lesson Plans	
Lesson Name/Topic	Lesson Objective(s)	Time frame (day(s) to complete)
Lesson 1	Introduction of Magician Thinking	2 classes
Seven Blind Mice and Magic	(visual/spatial thinking)	
Thinking	Describing an unseen object –	
	using our "minds eye" to visualize	
Lesson 2	Continuation of Magician	2 classes
You'll Never Guess	Thinking: Practicing visualization	
	and creating their own "you'll	
	never guess" picture.	
Lesson 3	Continuation of Magician	2 classes
When a Line Bends a Shape	Thinking: Practicing visualization	
<u>Begins</u>	and creating their own "shaping	
	up pictures" using basic shapes	
	supplied.	
Lesson 4	Continuation of Magician	1 class
Basic Colors, Geometry	Thinking: Using Venn Diagrams to	
Shapes and Venn Diagrams	compare and contrast similar and	
	dissimilar geometric shapes	
Lesson 5	Continuation of Magician	1 class
What Do You Do With a Tail	Thinking: Identifying animal parts	
<u>Like This?</u>	and deciding what its function is	
	through convergent, divergent	
	and visual thinking.	
Lesson 6	Continuation of Magician	2 classes
Surprise in the Middle	Thinking: Create drawings using	
	clues requiring convergent,	
	divergent, and visual directions	

	while encouraging active listening	
	and attention to visual details	
Teacher Notes:		
Additional Resources		
Click links below to access additional resources used to design this unit:		

	Unit Overview
Content Area:	Enrichment
Unit Title:	Unit 2: Evaluative/Critical Thinking
Grade Level:	Kindergarten

Unit Summary: Students will be introduced to criterion-based Judge Thinking (evaluative/critical reasoning) that bases decisions on factual, observable, or measurable considerations (or criteria) resulting from logical inquiry and reasoning. Students will be encouraged to recognize more than one viewpoint and to understand how different criteria can affect outcome. Opinions and decisions require evidential support.

Interdisciplinary

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CCSS.ELA-Literacy.SL.K.6	Speak audibly and express thoughts, feelings, and ideas clearly.
CCSS.ELA-Literacy.L.K.6	Use words and phrases acquired through conversations, reading and being read to, and responding to texts.
CCSS.Math.Content.K.CC.B.4	Understand the relationship between numbers and quantities; connect counting to cardinality.
CCSS.Math.Content.K.CC.C.6	Identify whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group, e.g., by using matching and counting strategies.

CCSS.Math.Content.K.MD.A.2	Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the	
		ompare the heights of two children and
	describe one child as taller/shorter	
CCSS.Math.Content.K.MD.B.3	Classify objects into given categories; count the numbers of objects in each	
	category and sort the categories by count.	
CCSS.Math.Content.K.G.A.1	Describe objects in the environment using names of shapes, and describe the	
	relative positions of these objects using terms such as above, below, beside, in	
	front of, behind, and next to.	
CCSS.Math.Content.K.G.B.6	Compose simple shapes to form larger shapes. For example, "Can you join	
	these two triangles with full sides touching to make a rectangle?"	
Unit Essential Question(s):		Unit Enduring Understandings:
	/iti the indicator	Cr. d

How can we use evaluative/critical thinking?

- Students will recognize the possibility of more than one correct solution.
- From many possible choices, considerations (or criteria) can help students to the best choice.

Unit Learning Targets/Objectives:

Students will...

- Recognize that often there is no one right answer.
- Utilize criteria to narrow down choices to the best choice.
- Make decisions based on valid factual or observable considerations, NOT opinions.
- Be able to support/justify their choices.
- Identify how to use in our everyday life

Evidence of Learning

Formative Assessments:

- Teacher observation data
- Task completion checks
- Student feedback (thumbs up/down, responses to guestions/discussions)

Summative/Benchmark Assessment(s):

- Performance Series testing
- Teacher recommendations
- Cognitive Skills Assessment

Resources/Materials:

- Primary Education Thinking Skills K-3
- **Discovery Education**
- Teacher created resources for lesson plans

Modifications:

Special Education Students

- Allow errors
- Rephrase questions, directions, and explanations
- Allow extended time to answer questions, and permit drawing, as an explanation
- Accept participation at any level, even one word

At-Risk Students

- Provide extended time to complete tasks
- **Consult with Guidance Counselors** and follow I&RS procedures/action plans

-	Consult with Case Managers and follow IEP
	accommodations/modifications
Er	nglish Language Learners
-	Assign a buddy, same language or English spe

- eaking
- Allow errors in speaking
- Rephrase questions, directions, and explanations
- Allow extended time to answer questions, and permit drawing, as an explanation
- Accept participation at any level, even one word

- Consult with classroom teacher(s) for specific behavior interventions
- Provide rewards as necessary

Gifted and Talented Students

- Provide extension activities
- Build on students' intrinsic motivations
- Consult with parents to accommodate students' interests in completing tasks at their level of engagement

	Lesson Plans	
Lesson Name/Topic	Lesson Objective(s)	Time frame (day(s) to complete)
Lesson 1	Introduction of Judge Thinking	2 classes
Can I Have a Stegosaurus?	(evaluative/critical thinking)	
Can I? Please? and Opinion	Understanding that there are	
vs. Fact	different reasons	
	(considerations/criteria) for	
	decisions; Using supporting	
	reasons for requests through role	
	play; opinion vs. fact)	
Lesson 2	Continuation of Judge Thinking:	2 classes
The Little Mouse, the Red	Evaluate circumstances;	
Ripe Strawberry, and the Big	empathasize with story character	
Hungry Bear, by Don and	in order to understand a different	
Audrey Wood	viewpoint; use inventor thinking to	
	brainstorm other options and then	
	use judge thinking to focus on	
	possible solutions.	
Lesson 3	Continuation of Judge Thinking:	2 classes
"The Art of Persuasion"	Create a personal "request" for a	
	monster from someone using	
	criteria that is factual or	
	observable, not opinion based.	
Lesson 4	Continuation of Judge Thinking:	1 class
<u>William's Doll</u>	Identifying factors that need to be	
	considered when making a	
	decision	
Lesson 5	Continuation of Judge Thinking:	1 class
Don't Let the Pigeon Drive	Finding both positive and negative	
the Bus	reasons in a decision	
Lesson 6	Continuation of Judge Thinking:	2 classes
Emma's Pet	Using criteria to make an educated	
	decision when offered multiple	
	solutions.	

Teacher Notes:
Additional Resources
Click links below to access additional resources used to design this unit: