Jefferson City Public Schools-Curriculum

SUBJECT:	Elementary	

COURSE: EER

STRAND: Meant to Invent

Assessment/Evaluation	Instructional Activities
Ball Bearing experiment Rube Goldberg Invention sheet	 Simple machines: wheel axle pulley wedge screw lever gear bevel gear gear rack and pinion cam crank and rod ratchet Spinning Your Wheels Rube Goldberg background information Videos: Simple Machines Bill Nye: Inventions
 Create a Franklin, Edison, and Me invention Why Didn't I Think of That? web Create a Handy Hanger invention 	 The Flag Tower Franklin, Edison, and Me challenge Why Didn't I Think of That? activity Handy Hanger activity Power of Creative Thinking background information The Invention Connection activity
	Ball Bearing experiment Rube Goldberg Invention sheet Create a Franklin, Edison, and Me invention Why Didn't I Think of That? web

Performance: 1.5, 2.1, 3.1, 4.1 Knowledge: (CA) 1,3,5,6 (MA) 2 (SC) 7 CAGLE: R.1.E (Gr. 6), R.1.H (Gr. 8), 1.5.2.A (Gr. 6) SCGLE: SC2.2.D (Gr. 7), SC8.1.A (Gr. 6-8) NETS: (3.5) 9 DOK: 1-4 Sheet SCAMPER Brainstorming answer sheet Meant to Invent documentation packet - assessed using a scoring guide How to Think Like an Inventor answer sheet Last Straw invention presentation - assessed using a scoring guide Who Owns the Cure? debate - evaluated using teacher observation Create Meant to Invent invention - assessed using a scoring guide The Last Straw Marketing background information What Traits Do Inventors H. Common? sheet The Last Straw Marketing background information packet Parts of a Patent background information packet Step by Step (directions) act Who Owns the Cure? activity Invention EGGstravaganza	Objectives	Assessment/Evaluation	Instructional Activities
inventions assessed using a scoring guide Obscertainer experiment Obscertainer experiment using a scoring guide Cobscertainer experiment using a scoring guide Using a scoring guide Using a scoring guide The second sec	formance: 1.5, 2.1, 3.1, 4.1 owledge: (CA) 1,3,5,6 (MA) 2 (SC) 7 GLE: R.1.E (Gr. 6), R.1.H (Gr. 8), LS.2.A (Gr. 6) GLE: SC2.2.D (Gr. 7), SC7.1.A,C,D (Gr. 6), SC7.1.B (Gr. 7), SC8.1.A (Gr. 6-8) FS: (3-5) 9 K: 1-4	sheet SCAMPER Brainstorming answer sheet Meant to Invent documentation packet - assessed using a scoring guide How to Think Like an Inventor answer sheet Last Straw invention presentation - assessed using a scoring guide Who Owns the Cure? debate - evaluated using teacher observation Create Meant to Invent invention - asssessed	 Analyze former kid invention winner Create the World's Ten Greatest Inventions Brainstorming background information Practicing the creative part of inventive thinking Steps to Inventing sheet What Makes a Person Inventive? information What Traits Do Inventors Have in Common? sheet The Last Straw Marketing background information sheet Parts of a Patent background information packet Spaghetti Structures Step by Step (directions) activity Who Owns the Cure? activity
	formance: 1.6, 2.3, 3.1, 4.4 wledge: (CA) 1,4 (SC) 2,7 GLE: W.2.D (Gr. 5) GLE: SC2.2.D (Gr. 7), SC7.1.A,C,D (Gr. 6), SC7.1.B (Gr. 7) FS: N/A	assessed using a scoring guide Obscertainer experiment results sheet - assessed	 The Pendulum Project experiment Obscertainer experiment

Objectives	Assessment/Evaluation	Instructional Activities
(E) Become acquainted with famous inventors and their inventions Performance: 1.6, 2.3, 3.4, 4.5 Knowledge: (CA) 1,3,4 (SC) 8 CAGLE: R.1.H (Gr. 8), W.2.D (Gr. 5) SCGLE: SC8.1.A (Gr. 6-8), SC8.2.A,B (Gr. 6-8), SC8.3.B (Gr. 6-8) NETS: N/A DOK: 1-2	 Fact Pyramid sheet - assessed using a scoring guide What Do You Think? interpretation sheet - assessed using a scoring guide 	 Leonardo's Mysterious Machinery Galileo Galilei background information Inventor's background information of: great women minorities Famous Inventor's packet What Do You Think? - quotes from famous inventors Benjamin Franklin packet Great Thinkers and Their Inventions packet Thomas Edison and Other Young Inventors packet
(F) Classify inventions and when they took place Performance: 1.6, 2.3, 3.4, 4.5 Knowledge: (CA) 1,3 CAGLE: R.1.H (Gr. 8) SCGLE: SC8.1.A (Gr. 6-8), SC8.2.A (Gr. 6-8), SSGLE: TSSI.7.B (Gr. 5-8) NETS: N/A DOK: 1-2	 Inventions Match answer sheet The Poetry Wheel - assessed using a scoring guide The World's Ten Greatest Inventions record sheet When Did That Happen? answer sheet Report (when each invention happened) - assessed using a scoring guide Mass Production experiment - assessed using a scoring guide 	 Tool time - ancient tools Invention Fact Card activity The Wheel The World's Ten Greatest Inventions When Did That Happen? activity The Great All-Time Inventions game A World Without Machines - Industrial Revolution packet
(G) Create and present an invention to the class and explain the benefits of the invention and the problem it solves or who it helps Performance: 1.5, 2.1, 3.1, 4.1 Knowledge: (CA) 1,4-6 (MA) 1,2,5 (SC) 2 CAGLE: W.2.D (Gr. 5), LS.2.A (Gr. 5) SCGLE: SC2.2.D (Gr. 7), SC8.3.B (Gr. 6-8) NETS: N/A DOK: 1-4	 Present the Paper Idea Factory invention - assessed using a scoring guide Presentation of Brown Bagging It invention - assessed using a scoring guide Meant to Invent: invention presentations - assessed using a scoring guide invention packet - assessed using a scoring guide positive comment sheet peer analysis sheet 	 Paper Idea Factory Brown Bagging It Create Meant to Invent inventions

Last Revised: 4/30/09

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Objectives	Assessment/Evaluation	Instructional Activities