INTEGRATIVE INSTRUCTIONAL TOOLS for 21st CENTURY LEARNING

Inquiry	Problem-Based Learning	Project-Based Learning	Challenge-Based Learning	Design Process	The 4 C's Creativity Critical Thinking Collaboration Communication	Graphic Organizers + Visual Aids	Classroom Culture & Teaching Methods
What is Inquiry? **ARTICLE** An Inquiry Primer **ARTICLE** Inquiry and Analysis Rubric The Keys to Inquiry **ARTICLE** Using "Think Time" and "Wait Time" Skillfully in the Classroom **ARTICLE** A Tool for Rethinking Questioning **ARTICLE** Asking Questions that Encourage Inquiry-Based Learning 10 Facts About Inquiry-Based Learning **VIDEO**	Teaching Problem Finding Along with Problem Solving **PODCAST** Turning Kids into Problem Finders **VIDEO** How to Develop Students as Problem Finders **ARTICLE** Choose 2 Matter Sustainable Development Goals 8 Ways to Spark Problem Finders **POSTER** Want to Kelp Kids Solve Problems? Have Them Design Their Own Solutions **ARTICLE**	Integrative STEM Education through Project-Based Learning **ARTICLE** High Tech High's Library of Project Examples Buck Institute for Education Project Learning Library Essential Project Design Elements Checklist Project-Based Learning: The 7s	Challenge Based Learning Guide	Design Thinking Process Guide Design Thinking for Educators Toolkit Innovator's Mindset **ARTICLE** Inventomania Booklet Inventomania Game Description Ready, Set, Design	The 4 C's Poster The 7 Norms of Collaborative Work **ARTICLE** 7 Norms of Collaboration Poster Inside the Collaborative Classroom: The Core Principles **ARTICLE** Deeper Learning: A Collaborative Classroom is Key **ARTICLE** What can collaboration with students look like? **ARTICLE** Collaborative Teaching for Interdisciplinary Learning **VIDEO** The Seven Norms of Collaborative Work **ARTICLE** STEM Teachers in Professional Learning Communities: From Good Teachers to Great Teaching **ARTICLE** The Four C's Making 21st Century Education Happen **VIDEO** Thinking About Thinking **ARTICLE**	8 Mind Map Tools Top 10 Timeline Creation Tools Digital Poster Tools VISME Piktochart Canva Tackk ThingLink Buncee Smore Easel.ly 21 Top Presentation Tools for Educators Ignite QFocus Graphic Organizer	Growth Mindsets for STEM Careers **VIDEO** Creating Space for Risk **VIDEO** Culture of Error **ARTICLE** Ability and Mathematics: The Mindset Revolution **ARTICLE** Boosting Math **VIDEO** Choice Boards Multiple Intelligences Self-Assessment Calendar The Learning Brain **VIDEO** Closing the Gap in STEM Education **VIDEO** Girls in STEM

					Cognitive Rigor Matrix Video Good Thinking! — That's so Meta(cognitive) **VIDEO** **"**Creativity is Not Innovation (But You Need Both)**" ARTICLE** "Innovation is NOT Creativity" **ARTICLE** "Creativity and Innovation: Your Keys to a Successful Organization" **ARTICLE** Metacognition: Learning about Learning Cooperation vs. Collaboration **VIDEO**		

Integrative Assessment Tools	Integrative Curriculum	Differentiated Instruction	Career Exploration
Critical Friends **VIDEO** How Can We Teach and Assess Creativity and Innovation in PBL? **ARTICLE** Creativity and Innovation Rubrics BIE Teamwork and Collaborative Rubrics A Guide to Assessing Teamwork and Collaboration Formative (Informal) Assessment Strategies	Definition of STEM **ARTICLE** What is STEM Literacy? **ARTICLE** How to Read Next Generation Science Standards **VIDEO** Next Generation Science Standards	Differentiated Instruction and the 21st Century Learner **PPT** Inclusion in the 21st Century Classroom **ARTICLE** Station Rotation **VIDEO** Differentiated Classroom Strategies **VIDEO**	2016 U.S. News/Raytheon STEM Index Shows Uptick in Hiring, Education **ARTICLE** US News: Best STEM Jobs **ARTICLE** STEM Jobs - Do What You Love **ARTICLE** STEM 101: Intro to Tomorrow's Jobs **ARTICLE** STEM Career Lab STEM Jobs

Examples of Open-Ended and Closed-Ended Questions Experiencing the Question Formulation Technique (QFT) The Question Formulation Technique (QFT) The QFT for Summative Assessment **VIDEO** Pre-Assessment Ideas Differentiation: It Starts with Pre-Assessment Shepardson STEM Elementary Website's Differentiation STEM Challenges - The Differentiating Magic of Criteria & Constraints Lists Creating a Formative Assessment System Supplemental Article: New Assessments Help Teachers Innovate in Classrooms How a Classroom Game Becomes an Embedded Assessment Using Games for Assessment The Who, What, When, Where, Why, How of Assessment **VIDEO**	Standards for Student Mathematical Practice **POSTER** PA Core Math Standards Illustrative Mathematics Teach Engineering Writing in the 21st Century **ARTICLE** Teaching Writing in the 21st Century **ARTICLE** Thinking Differently About Writing in the 21st Century Classroom **ARTICLE**		