

Bringing Inquiry to Life



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Inquiry can be enriched through the use of technology and web-based tools. Educators can facilitate aspects of the inquiry project using technology for a variety of purposes within an inquiry such as developing questions, information seeking, reflecting, documenting, assessing, and presenting learning. Technology enables engaging, authentic experiences where students collaborate, communicate, and share their learning locally and globally.

The Fostering of Deep Knowledge and Understanding

Inquiry Stage	Teaching and Learning Strategies	Technology Tools and Resources
<p>Frontloading and Building Foundational Understandings</p> <ul style="list-style-type: none"> • Invite Curiosity • Build Background Knowledge • Find Topics • Wonder 	<ul style="list-style-type: none"> • Build Background Knowledge (Eg. KWL) • Think Alouds • Converse With Experts • Facilitate Conversations, including Small Group Discussion & Dialogue • Identify Research Containers • Introduce a Variety of Sources, Including Primary Sources • Build Visual Literacy Skills • Demonstrate Webbing and Concept Mapping • Model Pre-Reading Aids (Visual Organizers, Semantic Maps, Anticipation Guides) • Engage In Exploration Activities 	<ul style="list-style-type: none"> • Concept Mapping and Webbing <ul style="list-style-type: none"> ○ Popplet ○ Bubbl.us ○ Mindmeister ○ InstaGrok • Small Group Discussions and Dialogue <ul style="list-style-type: none"> ○ Titan Pad ○ Lino.It ○ Padlet • Curation (Teacher) <ul style="list-style-type: none"> ○ Pathfinders (Jog The Web, Only2Clicks) ○ LibGuides • Background Knowledge/Finding Topics <ul style="list-style-type: none"> ○ Access Experts/Other Voices <ul style="list-style-type: none"> ▪ Skype ▪ Twitter ○ Online Multimedia Resources ○ Online Databases ○ Image Resources <ul style="list-style-type: none"> ▪ Google Images and Flickr ▪ Compfight ○ Google Earth ○ TeacherTube, YouTube

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<p>Investigating Wonderings</p> <ul style="list-style-type: none"> • Develop Questions • Search for Information • Discover Answers 	<ul style="list-style-type: none"> • Find Information • Refine Questions • Model The Process <ul style="list-style-type: none"> ○ Guided Practice • Make Text Connections With Prior Knowledge <ul style="list-style-type: none"> ○ Read Alouds And Think Alouds • Understand Organization Of Text <ul style="list-style-type: none"> ○ Text Structures ○ Text Features • Annotate Text <ul style="list-style-type: none"> ○ Coding ○ Notes/Reflection ○ Two Column Note Taking 	<ul style="list-style-type: none"> • Effective Search Strategies <ul style="list-style-type: none"> ○ Google Custom Search ○ Search Engines ○ RSS Feeds (push databases, blogs news sites) ○ Hashtags • Web Site Evaluation <ul style="list-style-type: none"> ○ Authenticity • Research Environment (Student) <ul style="list-style-type: none"> ○ Curation ○ Container: <ul style="list-style-type: none"> ○ Evernote ○ Dropbox ○ Diigo (For Educators) ○ Pinterest ○ Google Drive ○ Blogs (Kidblog, Wordpress, Edublogs) ○ Wikis (Wikispaces) ○ Develop Culture of Digital Citizenship <ul style="list-style-type: none"> ○ Citation Generators <ul style="list-style-type: none"> ○ BibMe ○ TinEye ○ Copyright Friendly Places <ul style="list-style-type: none"> ○ Creative Commons • Find Information <ul style="list-style-type: none"> ○ Online Databases ○ Variety of sources: primary, scholarly, peer-edited • Annotate Online Text <ul style="list-style-type: none"> ○ Evernote • Understand Organization of Digital Text <ul style="list-style-type: none"> ○ Hyperlinks

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<p>Synthesizing and Constructing New Knowledge</p> <ul style="list-style-type: none"> • Intensify Research • Synthesize Information • Identify Call to Action (activism, awareness, aid, stewardship) • Build Knowledge 	<ul style="list-style-type: none"> • Synthesizing Information from a Variety Of Sources, Including <ul style="list-style-type: none"> ○ Interviews ○ Surveys ○ Questionnaires ○ Focus Groups • Evaluate Information <ul style="list-style-type: none"> ○ Check Sources ○ Determine Reliability • Citation Of Sources • Reflection (Assessment For Learning) <ul style="list-style-type: none"> ○ Conferencing <ul style="list-style-type: none"> • Teacher-To-Student • Student-To-Teacher • Student-To-Student ○ Self-Assessment • Identify Plan of Action <ul style="list-style-type: none"> ○ Activism - do something specific to support cause ○ Awareness – educate others, encourage them to think ○ Aid – contribute resources ○ Stewardship • Determine Method For Showcasing Learning <ul style="list-style-type: none"> ○ Compose ○ Storyboard 	<ul style="list-style-type: none"> • Aggregate Information and Materials <ul style="list-style-type: none"> ○ Data Management <ul style="list-style-type: none"> • Spreadsheet (Excel) • Infographics ○ Interviews and Feedback <ul style="list-style-type: none"> • Podcast (Audacity) • Video (Flip cameras) • MP3 (Smart Recorder) • Present.Me • HootSuite ○ Survey and Questionnaires <ul style="list-style-type: none"> • Generators <ul style="list-style-type: none"> • PollDaddy • Google Forms • PollEverywhere

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<p>Sharing With An Intentional Audience</p> <ul style="list-style-type: none"> • Share Learning • Demonstrate Understanding and Learning in a Variety of Ways • Take Action (activism, awareness, aid, stewardship) 	<ul style="list-style-type: none"> • Co-construct presentation rubric with specific criteria • Continue feedback loop <ul style="list-style-type: none"> ○ Teacher and Peer Conferencing ○ Feedback from teacher, peers, experts and others • Model Reflection: <ul style="list-style-type: none"> ○ I Used to Think/Now I Know ○ Digital Learning Portfolio ○ Learning Blog ○ Journals and Diaries • Consider a Wide Variety Of Possibilities For Sharing Learning <ul style="list-style-type: none"> ○ Written <ul style="list-style-type: none"> ▪ Reports ○ Oral <ul style="list-style-type: none"> ▪ Speech ▪ Performance ○ Visual <ul style="list-style-type: none"> ▪ Illustrations ▪ Demonstration ▪ Advertisement ○ Multimedia <ul style="list-style-type: none"> ▪ Video 	<ul style="list-style-type: none"> • Digital Footprint <ul style="list-style-type: none"> ○ Attribution ○ Licensing Own Work • Consider Wide Variety Of Possibilities For Sharing Learning <ul style="list-style-type: none"> ○ Written <ul style="list-style-type: none"> ○ Writing Collaboration ○ Book Creation (Book Creator, ZooBurst) ○ Interactive Writing ○ Oral <ul style="list-style-type: none"> ○ VoiceThread ○ Podcasts, such as a Radio Show ○ Music Creation ○ Visual <ul style="list-style-type: none"> ○ Comic Life ○ Infographics ○ Narrated Art ○ Multimedia <ul style="list-style-type: none"> • Video (Animoto, One True Media, Scratch) • Book Trailers • Simulation or Game • Digital Story <ul style="list-style-type: none"> • Docudramas • Public Service Announcements