Inquiry:

Resources to Help You Effectively Use the Process

A list of professional materials available for borrowing from the Stewart Resources Centre – March 2011

The STF's Stewart Resources Centre – CHECK US OUT!

In order to serve you better, we have compiled the following list of resources that directly address some of your professional needs. We hope you find this publication helpful, and we would be pleased to hear from you if you would like us to continue producing more specialized resource lists, or if you have suggestions on how we can improve our service to you. We want to serve you better!

We make it easy for you to use the Stewart Resources Centre:

- For schools outside of Saskatoon, we mail our resources directly to you and provide a postage-paid mailing label for you to use to mail the resources back to us. (Audio-visual resources are excluded from the Canada Post library mailing rate, so you will need to pay postage to return these items.)

- For schools in Saskatoon, your resources arrive at your school through the weekly inter-school mail delivery. Materials may also be returned to us using this courier system.

- You don't need to know the exact titles for resources you need. Provide a topic and an approximate grade level at which you would like to use the materials, and we will do the rest!

- We are accessible 24 hours a day through the STF website: www.stf.sk.ca You may search our catalogue online or email us your resource requests at: src@stf.sk.ca

- Call us! STF members may call the Stewart Resources Centre toll-free at 1-800-667-7762, ext. 6323, or we can be reached at 373-1660, ext. 6323 for local calls.

- Visit us in person! We are open 8:30 a.m. to 5:00 p.m. from Monday to Friday.

658.406 C778
Appreciative inquiry : a positive revolution in change / Cooperrider, David L. Whitney, Diana.
San Francisco, CA: Berrett-Koehler, 2005.
Subjects: Organizational change. Organizational behavior. Appreciative inquiry.
Summary: Written by the originators and leaders of the Appreciative Inquiry (AI) movement itself, this practical guide offers an approach to organizational change based on the possibility of a more desirable future, experience with the whole system, and activities that signal "something different is happening this time." That difference systematically taps the potential of human beings to make themselves, their organizations, and their communities more adaptive and more effective. AI, a theory of collaborative change, erases the winner/loser paradigm in favour of coordinated actions and closer relationships that lead to solutions at once simpler and more effective.

371.102 B886
Becoming a reflective educator : how to build a culture of inquiry in the schools / Reagan, Timothy G. Case, Charles W. Brubacher, John W.
Thousand Oaks, CA: Sage Publications, 2000.
Subjects: Teaching. Teachers - Case studies. School management and organization - Case studies. Inquiry (Theory of knowledge).
Summary: This seminal work on reflective practice has been designed to help teachers become creative and innovative agents of inquiry in their schools and classrooms. Content includes: leadership and the role of teacher education, democratic schooling and transformative and constructivist curricula, and case studies illustrating how to create a culture of inquiry.

570.712 S555
Biology inquiries : standards-based labs, assessments, and discussion lessons / Shields, Martin.
San Francisco, CA: Jossey-Bass, 2006.
Subjects: Biology - Study and teaching (Middle school). Biology - Study and teaching (Secondary).
Summary: The author offers educators a handbook for teaching middle and high school students lessons in the life sciences that emphasize active inquiry instead of rote memorization. *Biology Inquiries* provides a pool of active learning lessons to choose from with tips on how to implement them. Grades 7-12.

370.78 D637 2004
Circles of learning : inquiry discourse communities / McVittie, Janet. Probert, Kathy. Klein, Marcia.
Saskatoon, SK: Dr. Stirling McDowell Foundation, 2004.
Subjects: Action research in education - Saskatchewan. Outdoor education.
Summary: The project invited students and teachers to create a "natural habitat garden" and in the process, students would "be involved in directing their own learning in meaningful ways and … invited to reflect on and discuss the effect of this process on their learning."

* Annotations have been excerpted from book descriptions provided by the publishers.

371.36 H254
Collaborating for project-based learning in grades 9-12 / Harada, Violet H. Kirio, Carolyn H. Yamamoto, Sandra H.
Columbus, OH: Linworth Books, 2008.
Subjects: Project method in teaching. Educational technology. School librarian participation in curriculum planning.
Summary: This book provides ideas for using a project-based approach to student learning in high school featuring the school library media specialist in a leadership role. The authors affirm what the school librarian knows - collaborating with teachers to guide high school students in inquiry-based learning is an effective practice.

025.5678 V919
Collaborative library research projects : inquiry that stimulates the senses / Volkman, John D.
Westport, CT: Libraries Unlimited, 2008.
Subjects: Library orientation for junior high school students. Research - Methodology. Active learning. School librarian participation in curriculum planning.
Summary: One of the purposes of this book is to facilitate the use of the learning-station approach to provide opportunities for students to learn via listening, viewing, reading, and touching. Grades 7-12.

507.1 B395
Collaborative teaching in the middle grades : inquiry science / Becker, Helaine.
Westport, CT: Libraries Unlimited, 2005.
Subjects: Science - Study and teaching (Middle school). School librarian participation in curriculum planning. Media programs (Education).
Summary: This book offers a comprehensive guide to collaboration, the process and tips for success, and innovative unit lessons for grades 6-8. It provides background material, complete lesson overview, instructional tasks and responsibilities, tools for assessment, and suggested resources in a convenient all-in-one format. Reproducible student worksheets, lesson guides, and assessments are included. Research skills such as selecting and retrieving data, evaluating data, synthesizing data, creating new data, and communicating information are all reinforced during each lesson.

371.39 H342
Comprehension and collaboration : inquiry circles in action / Harvey, Stephanie. Daniels, Harvey.
Portsmouth, NY: Heinemann, 2009.
Subjects: Inquiry-based learning. Active learning. Group work in education. Motivation in education.
Summary: This resource will: lay the foundation for inquiry circles by chronicling the current research and practices behind comprehension instruction and classroom collaboration; explain nine fundamental classroom conditions needed for active, small-group learning; provide 26 practical lessons in comprehension, collaboration, and research; offer how-to instructions for four types of inquiry circles - mini-research projects, curricular inquiries, extensions of literature circles, and open inquiry projects; and address characteristic management concerns, such as how to use the internet for research and how to assess and monitor student achievement.

372.83 F884
Connecting children with children, past and present : motivating students for inquiry and action / Fresch, Eula T.
Portsmouth, NH: Heinemann, 2004.
Subjects: Social sciences - Study and teaching (Elementary). Children - Study and teaching (Elementary).
Summary: Students learn how to interpret letters and diaries, analyze photographs, and role play from the perspectives of their historical peers. The author also connects the past to the present - she

describes how students can translate and use their predecessors' examples to become activists in their own communities.

371.2 W452
Data-driven dialogue : a facilitator's guide to collaborative inquiry / Wellman, Bruce. Lipton, Laura.
Sherman, CT: MiraVia, LLC, 2004.
Subjects: School management and organization. School improvement programs. Group work in education.
Summary: This book offers school leaders a practical toolkit for structuring and facilitating collaborative inquiry with and about data. This resource presents a three-phase model that supports groups in discovering assumptions, promotes data-focused investigations, and develops shared understandings of both problems and possible solutions.

507.1 L791
Differentiated science inquiry / Llewellyn, Douglas.
Thousand Oaks, CA: Corwin Press, 2011.
Subjects: Science – Study and teaching (Elementary). Science – Study and teaching (Middle school). Individualized instruction. Effective teaching.
Summary: This book takes the concept of inquiry-based science education to a deeper level with the author's model, including fresh ideas for engaging students and practical tools for differentiating inquiry instruction. The text demonstrates: methods for determining when and how to provide students with more choices, thereby increasing their ownership and motivation; ways to implement differentiated science inquiry in the main areas of science instruction; and strategies for successfully managing the classroom.

372.35 J82
Doing good science in middle school : a practical guide to inquiry-based instruction / Jorgenson, Olaf. Cleveland, Jackie. Vanosdall, Rick.
Arlington, VA: NSTA Press, 2004.
Subjects: Inquiry-based learning.
Summary: This book combines practical insights about adolescent learners with what master teachers know about how to shift from passive, textbook-centred instruction to inquiry-based investigations. Chapters cover the psychology of the middle school learner; why inquiry and collaboration are the cornerstones of good science; integrating science, literacy, math, and technology; classroom management and safety; plus additional resources and sample forms. Grades 6-8.

550 O11
Earth science success : 50 lesson plans for grades 6-9 / Oates-Bockenstedt, Catherine. Oates, Michael.
Arlington, VA: NSTA Press, 2008.
Subjects: Earth sciences – Study and teaching (Middle school). Lesson planning.
Summary: This resource provides an entire year's worth of inquiry-based and discovery-oriented Earth science lessons, including 33 investigations or labs, and 17 detailed projects. This collection of astronomy, geology, meteorology, and physical oceanography lessons promotes deeper understanding of science concepts through a hands-on approach that identifies and dispels student misconceptions and expands student understanding and knowledge.

372.35 H224
Eight essentials of inquiry-based science, K-8 / Hammerman, Elizabeth L.
Thousand Oaks, CA: Corwin Press, 2006.

Subjects: Science - Study and teaching (Elementary). Science - Study and teaching (Middle school). Inquiry-based learning.
Summary: This book breaks each essential into sample lessons that include sample data, discussion questions, and tools such as graphic organizers and analogies. Hammerman addresses the basic and complex principles related to inquiry, including: how to discuss data, information, models, graphics, and experiences; how to interact with one another to strengthen knowledge and skills; how to extend learning through guided or open-inquiry investigations and research; and how to apply new learning and the best research-based practices for improving student achievement. When you harness the immense power of inquiry-based learning, you can fully discover the inquisitive nature of each of your students!

371.39 W678
Engaging readers and writers with inquiry : promoting deep understandings in language arts and the content areas with guiding questions / Wilhelm, Jeffrey D.
New York: Scholastic, 2007.
Subjects: Inquiry-based learning. Language arts. Content area reading.
Summary: How does flight influence behaviour for humans and birds? Is it ever permissible to lie? Reframing our units and lessons with questions such as these makes learning more exciting for students. The author shares practical, easy ideas for turning standards into engaging authentic questions that propel students toward deep understandings. Includes sample lessons, discussion techniques, and questioning schemes for all the content areas. Grades 4 and up.

372.35 K82
Everyday science mysteries : stories for inquiry-based science teaching / Konicek-Moran, Richard.
Arlington, VA: NSTA Press, 2008.
Subjects: Science - Methodology. Problem solving. Science - Study and teaching. Detective and mystery stories.
Summary: Through 15 mystery stories, this book illustrates science concepts for students and reinforces the value of learning science through inquiry. Each mystery presents opportunities for students to create questions, form hypotheses, test their ideas, and come up with explanations. Focused on concepts such as periodic motion, thermodynamics, temperature and energy, and sound and sound transmission, these mysteries draw students into the stories by grounding them in experiences students are familiar with, and by providing them with a foundation for classroom discussion and inquiry. Grades K-8.

371.39 F652
Focus on inquiry : a teacher's guide to implementing inquiry-based learning
Edmonton, AB: Alberta Learning, 2004.
Subjects: Research - Study and teaching - Alberta.
Summary: This document provides supports for implementing inquiry-based learning activities in the classroom and is intended for teachers working on their own or in teams, with or without the support of a teacher-librarian or other library personnel. It provides an instructional model that can be used by all teachers, kindergarten to grade 12, in guiding inquiry with students.

613.2 J67
Food and nutrition inquiry activities : activities to use in teaching basic food and nutrition concepts! / Johnson, Judy.
Janesville, WI: J & B Products, 2006.
Contents: Book includes 8 transparencies.
Subjects: Nutrition - Study and teaching. Food - Study and teaching.

Summary: This book is ideal for teaching basic food and nutrition concepts to groups and individuals. Versatile, interactive activities and games introduce five categories: My Pyramid, nutrients, portion sizing, food labeling, and food safety. Grades 6 and up.

371.39 K96
Guided inquiry : learning in the 21st century / Kuhlthau, Carol C. Maniotes, Leslie K. Caspari, Ann K.
Westport, CT: Libraries Unlimited, 2007.
Subjects: Learning. Motivation in education. Information literacy - Study and teaching. Information technology.
Summary: Based on Kuhlthau's six-stage Information Search Process, the authors present a convincing argument for recasting guided inquiry as a dynamic, innovative way of developing information literacy. Part I discusses the theory and rationale behind adopting a guided inquiry approach, as the authors elucidate the expertise, roles, and responsibilities of each member of the instructional team. Part II presents the model in terms of its component parts. Grades PreK-12.

507.1 L791
Inquire within : implementing inquiry-based science standards / Llewellyn, Douglas.
Thousand Oaks, CA: Corwin Press, 2002.
Subjects: Science - Study and teaching - Standards. Inquiry (Theory of knowledge).
Summary: The author teaches a method of learning in science that is inquiry-based and that involves a process of asking questions, exploring, and making the connections that lead to understanding and discovery.

027.8 I58
Inquiry-based learning : lessons from Library Power / Donham, Jean.
Worthington, OH: Linworth Publishing, 2001.
Subjects: Library Power (Program). School libraries - Case studies. Libraries and education - Case studies. Inquiry-based learning.
Summary: Based on real schools and the struggles of real library media specialists and teachers, you'll find theory, principles, research and concrete examples all presented to illustrate how the Library Power initiative can move your school towards an inquiry-based approach to teaching, learning and curriculum renewal. This book will help you: learn the theory, principles and research behind this effective practice; learn how to implement inquiry-based learning into your school; and understand the effect of an inquiry-based curriculum on information literacy.

371.39 I58
Inquiry circles in elementary classrooms : new strategies for comprehension and collaboration [DVD] / Harvey, Stephanie. Daniels, Harvey.
Portsmouth, NH: Heinemann, 2010.
Subjects: Inquiry-based learning. Active learning. Group work in education. Motivation in education.
Summary: This DVD is a companion to Stephanie Harvey and Harvey Daniels' best-selling book, *Comprehension and Collaboration: Inquiry Circles in Action*. Features elementary school teachers modeling the use of inquiry circles in 1st and 4th grade classrooms at Burley School in Chicago.

371.39 I58
Inquiry circles in middle and high school classrooms : new strategies for comprehension and collaboration [DVD] / Harvey, Stephanie. Daniels, Harvey.
Portsmouth, NH: Heinemann, 2010.
Subjects: Inquiry-based learning. Active learning. Group work in education. Motivation in education.

Summary: This DVD is a companion to Stephanie Harvey and Harvey Daniels' book, *Comprehension and Collaboration: Inquiry Circles in Action.* This live-from-the-classroom DVD invites you to eavesdrop as student-led teams pose questions, undertake research, read strategically, build knowledge, understand, and act. You will see teachers teaching students the specific comprehension and collaboration strategies they need to operate effectively in four different kinds of structured, responsible teams.

371.148 H254
Inquiry learning through librarian-teacher partnerships / Harada, Violet H. Yoshina, Joan M.
Worthington, ON: Linworth Publishing, 2004.
Subjects: Questioning. Teaching teams. School libraries. Curriculum planning.
Summary: Build a strong case for the central role of the library media specialist in implementing curriculum changes into your school. Discover three vital concepts: inquiry as a critical approach to learning, student outcomes as the target in learning, and library media specialists as key partners in curriculum planning. Models of inquiry-based learning projects at each grade level are provided.

507.1 I58
Inquiry : the key to exemplary science / Yager, Robert (Ed.).
Arlington, VA: NSTA Press, 2009.
Subjects: Science – Study and teaching. Science teachers – Training of. Inquiry-based learning.
Summary: The 18 chapters in this resource illustrate various forms of inquiry, offer detailed examples of planning and execution, and provide case studies highlighting successful implementation of inquiry. Student learning, development of positive attitudes, the ability to use concepts and skills in completely new situations are all demonstrated for use in your classroom.

371.39 I61
Integrating inquiry across the curriculum / Audet, Richard H. Jordon, Linda K. (Eds.).
Thousand Oaks, CA: Corwin Press, 2005.
Subjects: Inquiry-based learning. Active learning. Curriculum planning.
Summary: This resource enables educators to visualize inquiry as the unifying knowledge base to guide students through all the major subject areas. The book includes: practical strategies that provide reliable assessment data about how students perform when engaged in inquiry; an exploration of inquiry from the unique perspectives of geography, science, history, language arts, and mathematics; plus much more. Grades K-12.

372.6 M517
Integrating language arts and social studies : 25 strategies for K-8 inquiry-based learning /
Melber, Leah M. Hunter, Alyce.
Thousand Oaks, CA: Sage Publications, 2010.
Subjects: Language arts (Elementary). Social studies – Study and teaching (Elementary). Inquiry-based learning.
Summary: This inquiry-based book presents hands-on explorations, interaction with primary sources, and critical thinking activities, that provide concrete methods to successfully integrate the language arts into the social studies curriculum. This resource: promotes the development of literacy skills by authentically integrating language arts; supports differentiated instruction for specific grade levels, English language learners, and students with special needs; and connects to standards in language arts, social studies, and technology.

372.652 B931
Ladybugs, tornadoes, and swirling galaxies : English language learners discover their world through inquiry / Buhrow, Brad. Garcia, Anne Upczak.

Portland, ME: Stenhouse Publishers.
Subjects: English language - Study and teaching as a second language (Elementary).
Summary: The authors explain how they blend comprehension instruction and ELL best practices to explore inquiry as a literacy pathway for English language learners. As teachers and students engage in learning science and social studies content, they also discover multiple ways to make meaning. The book is full of photographs of student artwork that reveal the children's inquiry process, and demonstrate the important role of art as a sign system in ELL literacy and language acquisition.

370.78 D637 2004
Making our ancestors proud : the Isbister Park Heritage Project / Westview Community School.
Saskatoon, SK: Dr. Stirling McDowell Foundation, 2004.
Subjects: Native peoples - History - Saskatchewan. Active research in education - Saskatchewan. Experiential learning - Saskatchewan. Prince Albert (Sask.) - History - Study and teaching.
Summary: A heritage project that uncovered a rich early history of the city of Prince Albert and encouraged new learnings by everyone involved.

507.1 K82
More everyday science mysteries : stories for inquiry-based science teaching / Konicek-Moran, Richard.
Arlington, VA: NSTA Press, 2009.
Subjects: Science – Methodology. Problem solving. Science – Study and teaching. Detective and mystery stories. Inquiry-based learning.
Summary: These 15 mystery stories examine science concepts and reinforce the value of learning science through inquiry. Each mystery presents opportunities for students to create questions, form hypotheses, test their ideas, and come up with explanations. Focused on concepts such as weather and climate, thermodynamics, interdependency of living things, adaptation, life cycles, properties of matter, reflection and refraction, and chemical bonds, these mysteries draw students into the stories by grounding them in experiences students are familiar with, providing them with the foundation for classroom discussion and inquiry.

372.38 A617
More picture-perfect science lessons : using children's books to guide inquiry : K-4 / Ansberry, Karen Rohrich. Morgan, Emily.
Arlington, VA: NSTA Press, 2007.
Subjects: Science - Study and teaching (Primary). Picture books for children.
Summary: This volume offers 15 new lessons that combine picture books and inquiry to develop students' interest in science and reading. Grades K-4.

370.72 C587
Narrative inquiry : experience and story in qualitative research / Clandinin, D. Jean. Connelly, F. Michael.
San Francisco, CA: Jossey-Bass Publishers, 2000.
Subjects: Education - Research - Methodology. Narration (Rhetoric). Storytelling.
Summary: In this guide, the authors show how narrative inquiry can be used in educational and social science research. Tracing the origins of narrative inquiry in the social sciences, they offer new and practical ideas for conducting fieldwork, composing field notes, and conveying research results. Throughout the book, stories and examples reveal a wide range of narrative methods.

507.12 N384
Negotiating science : the critical role of argument in student inquiry, grades 5-10 / Hand, Brian.
Portsmouth, NH: Heinemann, 2009.

Subjects: Science – Study and teaching (Middle school). Science – Study and teaching (Secondary). Inquiry-based learning.
Summary: Leading you through an argument-based approach to science writing that is grounded in effective practices, this book: demonstrates what good science arguments look like through student samples, models and supports top-notch instruction through teaching tools and templates adaptable to any classroom, contains guidelines that make assessment seamless and manageable, and includes activities help you make the transition from traditional science writing to argument-based writing.

371.39 K72
Nine thousand straws : teaching thinking through open-inquiry learning / Knodt, Jean Sausele.
Westport, CT: Teachers Idea Press, 2008.
Subjects: Inquiry-based learning. Active learning.
Summary: Along with a full review of objectives and foundational theories, this book presents 30 hands-on projects, and 33 “Focus Theme” discussions.

372.357 O94
Outdoor inquiries : taking science investigations outside the classroom / McGlashan, Patricia.
Portsmouth, NH: Heinemann, 2007.
Subjects: Nature study.
Summary: *Outdoor Inquiries* takes you step-by-step through guiding intermediate and middle level students to new and deeper understandings of scientific content, thinking, and procedures. From pragmatic advice - including how to select an appropriate site for investigation, what to bring with you, and how to ensure student safety - to powerful, detailed lesson plans, suggestions for cross-curricular integration, and useful ideas for assessment, this book offers everything you need to get started. It outlines five interrelated strategies to use with students as they investigate their local environment: journal keeping, mapping, collection making, field-guide development, and behaviour study. Grades 5-8.

510.712 B813
Panning for gold : 15 investigations to enrich middle school mathematics / Brahier, Daniel J.
Portsmouth, NH: Heinemann, 2007.
Subjects: Mathematics - Study and teaching (Middle school).
Summary: This book contains 15 classroom-tested, open-ended inquiries into real-life topics that build students’ facility with algebra, geometry, data analysis & probability, number & operations, and measurement. Its extended, two- to three-day investigations are a high-quality supplement for any curriculum. Grades 6-8.

372.35 A617
Picture-perfect science lessons : using children’s book to guide inquiry : grades 3-6 / Ansberry, Karen Rohrich. Morgan, Emily.
Arlington, VA: NSTA Press, 2005.
Subjects: Science - Study and teaching (Elementary). Picture books for children.
Summary: This book presents 15 ready-to-teach lessons, complete with student pages and assessments, that use picture books to guide science inquiry.

372.139 P238
Planning for inquiry : it's not an oxymoron! / Parker, Diane.
Urbana, IL: NCTE, 2007.
Subjects: Inquiry-based learning. Active learning. Education, Elementary – Curricula.
Summary: This book shows you how to get an inquiry-based curriculum started, how to keep it going, and how to do so while remaining accountable to mandated curricula, standards, and programs. The

author invites you into her classroom to think along with her as she provides an up-close look at the underlying structure of an inquiry-based approach, what such an approach might look like in practice, and how you can make it happen in your own classroom.

371.3 P887
Powerful instructional practices [DVD]
Regina, SK: Fishbowl Video, 2010.
Contents: 2 DVDs.
Subjects: Effective teaching.
Summary: Narrated by Ian Krips of the Saskatchewan Professional Development Unit, these DVDs explain and demonstrate key instructional strategies such as concept attainment, concept formation, inquiry, and synectics.

372.35 W726
The preschool scientist : using learning centers to discover and explore science / Williams, Robert A.
Silver Spring, MD: Gryphon House, 2010.
Subjects: Science – Study and teaching (Preschool). Education, Preschool.
Summary: This book gives children the opportunity to actively engage, experiment, create, and discover the exciting world of science. Using a unique inquiry-based approach, these activities explore science through learning centres. Each of the activities has “Keep It Simple” and “Add a Challenge” sections, so teachers can adjust the difficulty to their unique classrooms. Topics include: Alike and Different, Exploring Motion, Exploring Change, Exploring Tools, Working with Water, Light and Shadows, and Getting to Know Our World.

372.136 M135
Project-based inquiry units for young children : first steps to research for grades preK-2 / MacDonell, Colleen.
Columbus, OH: Linworth, 2007.
Subjects: Project method in teaching. Inquiry-based learning. Early childhood education.
Summary: Set in the wider context of the project approach to learning, this book addresses the needs of both library media specialists and teachers in preschool, kindergarten, and primary grades. Educators who want to use stories and nonfiction to promote independent learning in young children will love this book. The reader will find practical, hands-on activities where each sample lesson includes content, learning goals, and strategies for teaching and assessing learning. Librarians and teachers will learn not only how to guide young children through the research process, but also the important “why” to do this.

371.39 B248
Problem-based learning : an inquiry approach / Barell, John.
Thousand Oaks, CA: Corwin Press, 2007.
Subjects: Problem-based learning.
Summary: The author troubleshoots the problem-based learning process for teachers. This resource includes: a step-by-step method to simplify the process; examples showing problem-based learning in action; answers to frequently asked questions on standards-based implementation; thorough guidelines for developing problems for students to solve and letting them develop their own; and rubrics and assessment tips to ensure that standards are met.

510 R773
Problem-based learning for math and science : integrating inquiry and the Internet (2nd ed.) / Ronis, Diane L.

Thousand Oaks, CA: Corwin Press, 2008.
Subjects: Mathematics - Study and teaching. Science - Study and teaching. Problem-based learning. Internet in education.
Summary: This resource illustrates how to strengthen learners' problem-solving skills by incorporating problem-based learning with internet resources and presents projects that correlate to science, mathematics, and technology standards.

428.0071 P982
Pulling together : how to integrate inquiry, assessment, and instruction in today's English classroom / Schnellert, Leyton.
Markham, ON: Pembroke, 2009.
Subjects: English language – Study and teaching (Elementary). English language – Study and teaching (Secondary). Language arts (Elementary). Language arts (Secondary).
Summary: Four educators pull in the current big ideas in teaching - formative assessment, backward design, inquiry learning, strategic teaching, metacognition - and put them together in a way that makes sense.

372.47 R217
QAR now / Raphael, Taffy E. Highfield, Kathy. Au, Kathryn H.
New York, NY: Scholastic, 2006.
Subjects: Reading comprehension. Questioning. Inquiry-based learning.
Summary: In this resource, the authors show how QAR (Question Answer Relationship) provides a framework for organizing questioning activities and comprehension instruction, how it aligns with standards and assessments, and how you can easily integrate it across all the content areas. Grades K-8.

372.47 Q5
QAR (question answer relationships) : a simple taxonomy of questions / Hollas, Betty. Forsten, Char. Grant, Jim. Reynolds, Laureen.
Peterborough, NH: Crystal Springs Books, 2008.
Subjects: Reading comprehension. Questioning. Inquiry-based learning.
Summary: Research shows that teachers are asking their students far too many literal questions, while assessments are focusing on questions that require higher-levels of thinking. This means teachers need to improve not only their students' comprehension and questioning skills, but their own questioning skills as well. QAR is a comprehension strategy that can translate into success for everyone. Grades 3-8.

507.1 C443
Reading, writing, and inquiry in the science classroom, grades 6-12 : strategies to improve content learning / Chamberlain, Kathleen. Crane, Christine Corby.
Thousand Oaks, CA: Corwin Press, 2009.
Subjects: Science - Study and teaching (Middle school). Science - Study and teaching (Secondary).
Summary: This resource covers reading and writing practices, science standards, and sample lessons to help educators successfully integrate literacy and science instruction in any classroom.

507.12 S342
Science as inquiry in action [DVD]
Wynnewood, PA: Schlessinger Media, 2006.
Subjects: Science - Experiments - Juvenile films. Experimental design - Juvenile films.

Summary: Attempting to create the ultimate science project, a frustrated student receives assistance from a group of knowledgeable scientists. Through engaging examples, viewers will learn how scientific evidence and explanation play important roles in scientific inquiry. Grades 5-8.

372.35 H698
Science as thinking : the constants and variables of inquiry teaching, grades 5-10 / Hoffer, Wendy Ward.
Portsmouth, NH: Heinemann, 2009.
Subjects: Science – Study and teaching (Middle school). Science – Study and teaching (Secondary). Inquiry-based learning.
Summary: The author helps you: get started and sustain progress with classroom-tested strategies for implementing, teaching, and refining high-quality instruction; make direct connections between theory and practice through planning questions; and conduct meaningful assessment with sample rubrics.

507.12 S416
Science as inquiry in the secondary setting / Luft, Julie. Bell, Randy L. Gess-Newsome, Julie (Eds.).
Arlington, VA: NSTA Press, 2008.
Subjects: Science - Study and teaching (Secondary). Inquiry-based learning.
Summary: This book gives you an overview of what inquiry can be like in middle and high school and explores how to incorporate more inquiry-centred practices into your own teaching. Leading researchers raise and resolve such key questions as: What is inquiry?; What does inquiry look like in specific classes, such as the Earth science lab or the chemistry lab?; What are the basic features of inquiry instruction?; and How do you assess science as inquiry?.

372.35 C187
Science notebooks : writing about inquiry / Campbell, Brian. Fulton, Lori.
Portsmouth, NH: Heinemann, 2003.
Subjects: Science – Study and teaching (Elementary). School notebooks. Learning by discovery.
Summary: This book serves as a ready resource of strategies and methods for teachers to incorporate science notebooks into their school day. Along the way, the book includes: classroom vignettes that demonstrate how science notebooks actually function in class, student samples that allow readers to see student entries at a variety of levels, and thinking points throughout that link ideas presented in the book to practice and philosophical beliefs. Grades 2-6.

507.12 S966
The science quest : using inquiry/discovery to enhance student learning / Sutman, Frank X. Schmuckler, Joseph S. Woodfield, Joyce D.
San Francisco, CA: Jossey-Bass, 2008.
Subjects: Science - Study and teaching (Middle school). Science - Study and teaching (High school). Inquiry-based learning.
Summary: *The Science Quest* introduces the inquiry/discovery instructional framework, an innovative method for captivating students' interest in science, for building their skills in scientific thinking, and for enriching their understanding of scientific content and concepts. This book shows teachers how to transform ordinary lessons in ways that:1) encourage students to take initiative in posing scientific inquiry questions; and 2) enable students to independently discover answers to their questions by engaging in investigative practices and critically evaluating the findings. Grades 7-12.

372.35 H224

Seeing the science in children's thinking : case studies of student inquiry in physical science : a staff developer's guide / Hammer, David. Van Zee, Emily.
Portsmouth, NH: Heinemann, 2006.
Contents: 1 book and 1 DVD.
Subjects: Physical science - Study and teaching (Elementary) - Case studies. Physical science - Study and teaching (Middle school) - Case studies. Inquiry-based learning - Case studies.
Summary: This book is a field guide to the science classroom with authentic examples presented in written and video form. It's a great way for staff developers to train teachers' eyes and ears to pick up the analysis and ideas of students as they occur in the wild of classroom conversations. The authors explain the scientific process, describe how research suggests students conceptualize inquiry, and offer ways to encourage scientific investigation in the elementary and middle grades. Grades 1-8.

372.5 M954
The story in the picture : inquiry and artmaking with young children / Mulcahey, Christine.
New York, NY: Teachers College Press, 2009.
Subjects: Art – Study and teaching (Early childhood). Inquiry-based learning.
Summary: This book provides teachers with the skills, and freedom, to design rich and open-ended art experiences for young children. The author looks at the work of a variety of artists and offers guidance for using these artworks as taking-off points for conversations and creativity with a range of materials.

372.35 B926
Story starters and science notebooking : developing student thinking through literacy and inquiry / Buczynski, Sandy. Fontichiaro, Kristin.
Santa Barbara, CA: Teacher Ideas Press, 2009.
Subjects: Science – Study and teaching (Elementary). Language arts – Correlation with content subjects. Inquiry-based learning. School notebooks.
Summary: This book is designed to provide a meaningful, comfortable framework in which teachers can encourage elementary children to explore scientific ideas in an inquiry-oriented format. Grades 3-6.

372.677 H831
Storytelling and QAR strategies / Hostmeyer, Phyllis. Kinsella, Marilyn Adele.
Santa Barbara, CA: Libraries Unlimited, 2010.
Subjects: Storytelling. Questioning. Inquiry-based learning.
Summary: This book offers a clear, detailed explanation of this research-based, reading comprehension framework, providing teachers, school librarians, and storytellers with the tools they need to incorporate the deep learning of QAR into storytelling events and classroom work. The authors furnish traditional tales, fables, and myths related to the 12 pillars of character education, underscoring the traits of caring, citizenship, fairness, honesty, respect, and responsibility.

372.357 T136
Taking inquiry outdoors : reading, writing, and science beyond the classroom walls / Bourne, Barbara (Ed.).
York, ME: Stenhouse Publishers, 2000.
Subjects: National history - Study and teaching (Elementary).
Summary: *Taking Inquiry Outdoors* is written by a group of educators who have used the natural world as a setting for purposeful student learning and critical teacher reflection. For these teachers, the outdoors provides an authentic laboratory that promotes questions, investigations, reading, writing, listening, and sharing. Notes are kept, data collected, questions recorded, and observations documented. Children critically review their own experiences, place these experiences within the

larger context of group findings, evaluate and compare data, generalize concepts, and, best of all, come up with new questions to explore.

371.203 T253
Teaching as inquiry : asking hard questions to improve practice and student achievement / Weinbaum, Alexandra.
New York: Teachers College Press, 2004.
Subjects: Education evaluation - Case studies. Group work in education - Case studies.
Summary: This book offers an engaging and effective approach to improving teacher and student learning. Based on the experiences of three leading educational organizations, the authors provide research-based guidelines for incorporating inquiry into teachers' instructional practices and student work as part of the ongoing work of schools.

507.12 L791
Teaching high school science through inquiry : a case study approach / Llewellyn, Douglas.
Thousand Oaks, CA: Corwin Press, 2005.
Subjects: Science - Study and teaching (Secondary). Inquiry (Theory of knowledge).
Summary: This book offers a complete plan for nurturing a culture of inquiry in classrooms and schools. The author shows teachers how to help students: develop an understanding of scientific concepts and the nature of science, learn the skills and attitudes necessary to become independent thinkers and inquirers about the natural world, identify questions and concepts that guide scientific investigations, and use logic and evidence to formulate and revise scientific explanations.

540.712 G162
Teaching inquiry-based chemistry : creating student-led scientific communities / Gallagher-Bolos, Joan A. Smithenry, Dennis W.
Portsmouth, NH: Heinemann, 2004.
Subjects: Chemistry - Study and teaching (Secondary).
Summary: *Teaching Inquiry-Based Chemistry* retraces an entire year's curriculum to show you how the authors weave constructivist theory into every lesson without sacrificing content. You will discover how slowly increasing the complexity of projects while gradually shifting the responsibility for learning to class members builds success upon success until students are ready to formulate and to execute a three-week, end-of-year project where they function as a fully independent scientific community.

372.139 M135
Thematic inquiry through fiction and non-fiction, preK to grade 6 / MacDonell, Colleen.
Columbus, OH: Linworth Books, 2009.
Subjects: Inquiry-based learning. Education, Elementary – Curricula. Active learning.
Summary: Explore how outstanding fiction and nonfiction titles can be integrated into thematic inquiry in preschool and elementary classrooms. Each thematic inquiry unit has four sections: Read it! describes a sample dialogic reading of one of the fiction or nonfiction books; Integrate it! gives concrete examples of how specialized subjects and technology can be integrated with the fiction or nonfiction selections; Do it! describes hands-on activities that are integral to the use of fiction and nonfiction for inquiry; and Assess it! enumerates across-the-curriculum standards met in the thematic inquiry.

371.39 B592
What choice do I have? : reading, writing, and speaking activities to empower students / Bigelow, Terry Patrick. Vokoun, Michael J.
Portsmouth, NH: Heinemann, 2005.

Subjects: Active learning. Student-centered learning.
Summary: In this book, you'll discover how giving students a voice in how they learn and what they learn from opens up your classroom to inquiry and engagement while offering authentic teachable moments. The authors' activities give you and your students multiple entry points for both the development of language arts skills and the comprehension and retention of content. Grades 6-10.

507.12 S664
Whole-class inquiry : creating student-centered science communities / Smithenry, Dennis W. Gallagher-Bolos, Joan.
Arlington, VA: NSTA Press, 2009.
Subjects: Science – Study and teaching (Secondary). Inquiry-based learning. High school students. High school teaching.
Summary: The authors have successfully transformed typical high school science classrooms into student-led scientific communities in which learners take ownership of their projects and mimic real-world exploration. Now they have created a vehicle for implementing and assessing this concept of whole-class inquiry in your classroom.

372.13 B248
Why are school buses always yellow? : teaching for inquiry, preK-5 / Barell, John.
Thousand Oaks, CA: Corwin Press, 2008.
Subjects: Inquiry-based learning. Active learning.
Summary: Discover how to introduce the inquiry process and incorporate students' queries into inquiry-based units that teach mandated content while making learning relevant and lasting for young children.

370.78 D637 2001
Writing our way : narrative inquiry and a teaching, writing life / Brodgen, Lacie Marie. Froc, Myra. Hudyma, Laureen. Lawson, Gillian. Matei, Cheryl. Sabo, Joan.
Saskatoon, SK: Dr. Stirling McDowell Foundation, 2001.
Subjects: Narration (Rhetoric). Teachers - Diaries - Authorship. Action research in education - Saskatchewan. Teachers - Psychology.
Summary: This project was a narrative inquiry that examined the lived experience of six women educators over a two-year period. The participants explored many questions, including: How do teachers learn and teaching a writing life? and How does a reflective focus group enable its members to find their individual and collective voices so that they can become more effective teachers of writing?.

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