

Learning in the 21st Century

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Learning and Innovation & Use of Information



Problem:

How to prepare students for learning
and innovating in the dynamic,
cluttered, chaotic information
environment of the first decades of the
21st century

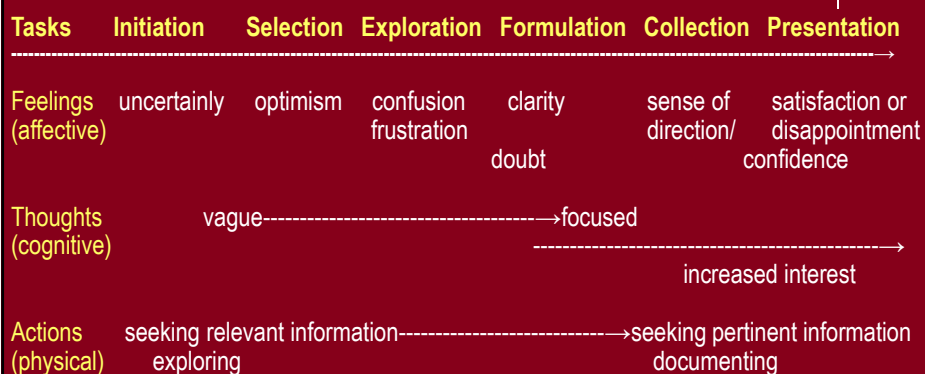
Inquiry Learning



Raises standard of research assignments to higher level by:

- Drawing on life experiences
- Learning from a wide range of sources
- Forming deep understanding
- Gaining sense of accomplishment
- Developing competence and expertise

Model of the Information Search Process

Uncertainty



Uncertainty is the beginning of learning.

“The mind doesn’t take everything and put it into order automatically...Understanding that is the biggest help.”

Zone of Intervention



That area in which a student can do
with advice and assistance
what he or she cannot do alone
or can do
only with great difficulty.

Guided Inquiry



Guided Inquiry is planned, supervised and targeted intervention.

Guided Inquiry is a dynamic way of developing information literacy and enhancing the curriculum through the library.

Guided Inquiry across the ISP



GUIDED INQUIRY	INFORMATION SEARCH PROCESS
Opening & Immersing	Initiation & Selection
Exploring	Exploration
Identifying	Formulation
Gathering & Documenting	Collection
Producing & Sharing	Presentation
Reflecting	Evaluation

Intervention Strategies for Guided Inquiry



- Collaborate** – work jointly with others
- Converse** – Talk about ideas for clarity and further questions
- Continue** – Develop understanding over a period of time
- Choose** – Select what is interesting and pertinent
- Chart** – Visualize ideas using pictures, timeline, graphic organizers
- Compose** – Write all the way along

A Concepts Approach to Information Literacy



- **Locate:**
- **Library as an inquiry lab for information literacy**
- **Trails and paths – browsing, monitoring, chaining, differentiating, extracting**
- **Types of searches – preliminary, exploratory, comprehensive, summary**

A Concepts Approach to Information Literacy



- Evaluate:
- Evaluate formats for reading, listening, viewing, experiencing
- Structure gives clues for evaluating sources
- Five characteristics for evaluating sources
 - quality, expertise, accuracy, currency and perspective

A Concepts Approach to Information Literacy



- Use:
- Determining importance, relevance, pertinence
- Forming a focus
- Deciding what is enough
- Managing inquiry- taking notes, recording references
- Interpreting facts and organizing ideas
- Sharing with community of learners

Strategies for Inquiry Learning



- Journals
- Small peer groups
 - Inquiry Circles
- Conferences
- Inquiry sessions
 - Starter
 - Activity
 - Reflection

Guided Inquiry Team



- Three member instructional teams
- Varied expertise
- Developed according to students' needs
- Core team and extended team
- Flexible team approach

The Guided Inquiry Team



- Understands the constructivist approach
- Embraces the team approach to teaching
- Includes administrators
- Considers inquiry central to curricular learning
- Commits to developing information literacy
- Allocates time for team planning
- Defines clear roles for each team member
- Designs assignments that enable and enhance learning
- Allocates time for extended learning
- Commits to guiding students through learning
- Adopts a flexible approach
- Endorses innovation and creativity

Guided Inquiry team meetings



- Preliminary Planning Meetings
- Implementation Meeting
- Check in Meeting
- Outcome Meeting
- Assessment Meeting


Challenge for 21st Century Education



Transforming schools to meet new challenges

New Model:

- Collaborative learning environment led by instructional team
- Learning from a variety of sources
- Inquiry process for deep understanding
- Education for innovation

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