



HANDOUT

Title:

Handout #:

Content:

How Integrated Learning Habits of Mind Connect to the other Frameworks



1. Inquire Creatively: Investigate open-ended questions through an aesthetic, imaginative, playful creative process.

SHoM: Stretch & Explore; Observe; Reflect; Envision; Engage and Persist; Develop Craft; Express.

TfU: Creative inquiry leads to new more meaningful understandings. Emphasis on process and performance.

MLV: Creative inquiry becomes a collaborative, visible/sensory, accessible process; MLV tools and strategies reveal connections between learning and creative inquiry; inquiry invites and enables ongoing reflection and assessment.

CCSS/NGSS: Thinking, conceptualization, understanding, close observation and analysis. **21st century skills:** Creativity.

2. Think Systemically: See the world as an interconnected system of systems. Think holistically.

SHoM: Understand Community. Stretch and Explore (find connections).

TFU: Understanding entails seeing something within its web of associations (Perkins' theory of understanding).

MLV: Allows us to see ideas and information within a web of associations.

CCSS/NGSS: Finding connections and underlying concepts. **21st Century Skills:** Critical thinking in discerning patterns, causes and effects.

3. Understand Academic Knowledge and Disciplines: Understand significant academic concepts, knowledge and practices

SHoM: Emphasis on process, interpretation and creation in studio (lab & field) inquiry

TfU: Understanding Four Dimensions of Disciplines

MLV: Emphasizes emergent knowledge, thinking and learning. Makes connections among disciplines.

CCSS/NGSS: Understanding the big ideas and concepts, and underlying patterns. **21st**

Century skills: Critical thinking; notice collaborations among practitioners of disciplines; notice creativity in disciplinary research and knowledge development

4. Make Meaning: Find connections between academic knowledge, oneself and life outside of school.

SHoM: Stretch and Explore; Understand community,

TfU: Coming to understand something in its web of associations is constructing meaning and deepening/broadening meaning.

MLV: Making understandings, process and connections visible and accessible gives them (or reveals) meaning.

CCSS/NGSS: Emphasis on understanding of concepts, seeing underlying patterns and applicability of knowledge to life.

5. Think Flexibly: Apply knowledge and ideas from one context to other contexts.

SHoM: Stretch and explore; engage and persist

TfU: Understanding is the ability to apply knowledge in different contexts (Wiske)

MLV: Ongoing assessment of visible evidence prompts learners to respond flexibly to new understandings as the process unfolds.

CCSS/NGSS and 21st Century skills: Solving problems; making new connections

6. Be Open, Curious and Resilient: Develop curiosity regarding the unknown; engage and navigate challenges, ambiguity and uncertainty.

TfU: Understanding drives further curiosity and fosters resilience

SHoM: Stretch and Explore; Envision; Engage and Persist

CCSS/NGSS: Going beneath the surface inspires curiosity; delving into complex concepts generates a tolerance for complexity; **21st Century Skills:** Creativity

7. Develop Metacognition: Understand and monitor one's own learning, making and thinking.

SHoM: Understanding process and behavior builds metacognition

TfU: Understanding can include metacognition (understanding thinking & process); performances of understanding, ongoing assessment and focused understanding goals generate metacognition.

MLV: Builds metacognition through revealing evolving process, learning and thinking

CCSS/NGSS: Awareness of thinking and process. **21st Century Skills:** Critical thinking in assessing learning and thinking processes. Understanding one's own creative learning, thinking and making processes.

8. Think Critically and Independently: Develop autonomy, agency and a critical lens.

SHoM: Engage and persist; Stretch and Explore; Envision; Reflect; Express

TFU: Ongoing personal assessment builds a sense of agency and independence; understanding builds a sense of agency;

CCSS/NGSS: Conceptualizing and thinking; **21st Century skills:** critical thinking.

9. Work Collaboratively and Interdependently: Learn from and with others. Solve problems together; inquire and create together.

SHoM: Understand community

TfU: Engage in discussions and hands-on, minds-on group projects to build understanding

MLV: Sharing learning and thinking builds community and group intelligence

CCSS/NGSS: 21st Century skills: Collaboration; Communication; Group Creativity

10. Develop Care: Develop motivation to act or engage in further exploration; build compassion for others and concern for things that matter.

SHoM: Understand Community.

TfU: Understanding fosters empathy; understanding builds motivation to learn more and to act

MLV: Build community through revealing shared thinking and learning; reveal and build an emerging community of learners.

CCSS/NGSS. Go beyond disconnected information to the underlying concepts and causes of phenomena. **21st Century Skills:** Build critical thinking skills to reveal why knowledge is important and how it affects ourselves, others and the world.

