Thinking Routines Matrix

From *Making Thinking Visible* by Ritchhart, Morrison & Church (2011)

pg.	Routine	Key Thinking Moves	Notes
	Routines for INTRODUCING & EXPLORING IDEAS		
2	See-Think-Wonder	Description, Interpretation & Wondering	Good with ambiguous or complex visual stimuli.
3	Zoom In	Description, Inference, & Interpretation	Variation of STW involving using only portions of an image.
4	Think-Puzzle-Explore	Activating prior knowledge, wondering, planning	Good at the beginning of a unit to direct personal or group inquiry and uncover current understandings as well as misconceptions.
5	Chalk Talk	Uncovers prior knowledge and ideas, questioning	Open-ended discussion on paper. Ensures all voices are heard, gives thinking time.
6	321 Bridge	Activates prior knowledge, questioning, distilling, & connection making through metaphors	Works well when students have prior knowledge but instruction will move it in a new direction. Can be done over extended time like the course of a unit.
8	Compass Points	Decision making and planning, uncovers personal reactions	Solicits the group's ideas and reactions to a proposal, plan or possible decision.
10	Explanation Game	Observing details and building explanations	Variations of STW that focuses on identifying parts and explaining them in order to build up an understanding of the whole from its parts and their purposes.
	Routines for SYNTHESIZING & ORGANIZING IDEAS		
11	Headlines	Summarizing, capturing the heart	Quick summaries of the big ideas or what stands out.
12	CSI: Color, Symbol, Image	Capturing the heart through metaphors	Non-verbal routine that forces visual connections.
13	Generate-Sort-Connect-Elaborate: Concept Maps	Uncovering and organizing prior knowledge to identify connections	Highlights the thinking steps of making an effective concept map that both organizes and reveals one's thinking.
14	Connect-Extend-Challenge	Connection making, identify new ideas, raising questions	Key synthesis moves for dealing with new information in whatever form it might be presented: books, lecture, movie, etc.
15	The 4 C's	Connection making, identifying key concept, raising questions, and considering implications	A text-based routine that helps identifies key points of complex text for discussion. Demands a rich text or book.
16	Micro Lab	A protocol for focused discussion	Can be combined with other routines and used to prompt reflection and discussion.
17	I used to think… Now I think	Reflection and metacognition	Used to help learners reflect on how their thinking has shifted and changed over time.
	Routines for DIGGING DEEPER INTO IDEAS		
18	What Makes You Say That?	Reasoning with evidence	A question that teachers can weave into discussion to push students to give evidence for their assertions.
19	Circle of Viewpoints	Perspective taking	Identification of perspectives around an issue or problem.
22	Step Inside	Perspective taking	Stepping into a position and talking or writing from that perspective to gain a deeper understanding of it.
24	Red Light, Yellow Light	Monitoring, identification of bias, raising questions	Used to identify possible errors in reasoning, over reaching by authors, or areas that need to be questioned.
25	Claim Support Question	Identifying generalizations and theories, reasoning with evidence, counter arguments	Can be used with text or as a basic structure for mathematical and scientific thinking.
26	Tug of War	Perspective taking, reasoning, identifying complexities	Identifying and building both sides of an argument or tension/dilemma.
27	Sentence-Phrase-Word	Summarizing and distilling	Text-based protocol aimed at eliciting what a reader found important or worthwhile. Used with discussion to look at themes and implications.

THINKING ROUTINES 2.0 MATRIX

From Making Thinking Visible 2.0 by Ritchhart, Church & Boix-Mansilla (2019)

pg.	Routine	Key Thinking Moves	Notes
		Routines for ENGAGING WITH OTHERS	
31	Give One Get One	Brainstorming, explanation	Good for idea generation and sharing. Gets students moving & talking.
32	Ladder of Feedback	Analysis & feedback	Structure for giving oral or written feedback. Used by teachers & students.
34	Leaderless Discussion	Questioning, probing & listening	Used with text/Lit to help students take ownership of discussion. Ask good questions.
35	Four Corners Debate	Analysis, reasoning, justification, listening	Students choose a position on a controversial proposition/statement & develop an argument.
36	Making Meaning	Making connections, exploring complexity, raising questions	Use to define a topic or concept, e.g. Leadership. A structured version of the chalk talk routine. Can be done with the teacher as scribe. Yields a definition.
37	SAIL: Speak, Ask, Ideas, Learned	Getting feedback and exploring possibilities, design thinking, clarifying	Used to share a rough prototype, plan or draft with a small group to further clarify plan and generate new ideas.
		Routines for ENGAGING WITH IDEAS	
38	Question Sorts	Questioning, inquiry	Quick summaries of the big ideas or what stands out.
39	Peeling the Fruit	Noticing, wondering, explaining, connecting, reasoning, perspectives, capturing the heart	Can be used to structure the exploration of a topic in order to build understanding. Works well with poems, art works, essays, and also larger topics of inquiry. Can be an evolving document.
41	Story Routine	Perspective, complexity, connections, analysis, wondering	Often used with artwork or visuals to explore different "stories." Can be used as a metaphor for analysis and going deeper in other areas such as math, science.
42	Unveiling Stories	Perspective, complexity, analysis, exploration	Looking at issues, events through various lenses to uncover their complexity.
43	Beauty & Truth	Noticing, complexity, explanations, heart	Used with visuals or stories to identify where beauty and truth reside and how they intersect.
44	Step In, Out, Back	Perspective taking, exploring complexity	Similar to Step Inside but builds in exploration & learning about a perspective to avoid self-projection.
46	My Favorite No	Analysis	Used with math problems or grammar to analyze what was correct and what was an error.
		Routines for ENGAGING IN ACTION	
47	PG&E: Predict, Gather, Explain	Reasoning with evidence, analysis, explanations	Used before an experiment or inquiry.
48	Get ICE: Image, Clear, Estimate	Predicting, visualizing, clarifying	Used in problem solving to clarify what one is to do and likely to find out before beginning.
49	B-Sure-2	Analysis, planning, explanations, connections	Analyzing exemplars to identify personal or group goals and actions.
50	What? So What? Now What?	Capturing the heart, explanations, implications	Used for taking stock, identify the meaning of actions, and planning future actions.
51	3 Y's	Connections, perspective taking, complexities	Used with an issue or problem to explore how it affects different groups from self to world.
53	4 IF's	Connections, perspective taking, complexities	Used with an issue or problem to explore how possible actions that might be taken in response.
		Routines for ENGAGING IN REFLECTION	
54	ESP+I	Questioning, heart, explanations, analysis	Useful to distill and reflect on an experience or problem based situation.
55	Insights and Questions	Questioning, heart	Quick distillation of learning.
56	Take Note	Synthesis, questioning, heart	Can be used as an exit ticket strategy or to encourage discussion and exploration of a topic after information has been presented.
57	+1 Routine	Memory, connections, synthesis	Alternative note taking method focused on using memory and improving other's notes.
58	NDA: Name, Describe, Act	Looking closely, memory	Used with a visual, similar to See---Think---Wonder but only focused on the noticing and describing.
59	How Else and Why	Perspective taking, complexities	Used to consider audience for one's statements and rephrase them so that they can be heard and well received by the intended audience.