What are Literacies within the Disciplines? The following lists for each of the major content areas, while not comprehensive, can act as starting points through which communities of teachers can begin to think in terms of disciplinary literacy (Lent, 2016).

	Read	Write	Think
Science	 When scientists read, they Ask "Why?" more than "What?" Interpret data, charts, illustrations Seek to understand concepts and words Determine validity of sources and quality of evidence Pay attention to details 	 When scientists write, they Use precise vocabulary Compose in phrases, bullets, graphs, or sketches Use passive voice Favor exactness over craft or elaboration Communicate in a systematic form 	 When scientists think, they Tap into curiosity to create questions Rely on prior knowledge or research Consider new hypotheses or evidence Propose explanations Create solutions
History	 When historians read, they Interpret primary and secondary sources Identify bias Think sequentially Compare and contrast events, accounts, documents and visuals Determine meaning of words within context 	 When historians write, they Create timelines with accompanying narratives Synthesize info/evidence from multiple sources Emphasize coherent organization of ideas Grapple with multiple ideas and large quantities of information Create essays based on argumentative principles 	 When historians think, they Create narratives Rely on valid primary and secondary sources to guide their thinking Compare and contrast or ponder causes and effects Consider big ideas or inquiries across long periods of time Recognize bias
Math	 When mathematicians read, they Use information to piece together a solution Look for patterns and relationships Decipher symbols and abstract ideas Ask questions Apply mathematical reasoning 	 When Mathematicians write, they Explain, justify, describe, estimate or analyze Favor calculations over words Use precise vocabulary Include reasons and examples Utilize real-word situations 	 When Mathematicians think, they Consider patterns Utilize previous understandings Find connections Estimate, generalize, and find exceptions Employ mathematical principles
English Language Arts	 When students of English read, they Understand how figurative language works Find underlying messages that evolve as theme Assume a skeptical stance Pay attention to new vocabulary or words used in new ways Summarize and synthesize 	 When students of English write, they Engage in a process that includes drafting, revising, and editing Use mentor texts to aid their writing craft Pay attention to organization, details, elaboration and voice Rely on the feedback of others Avoid formulaic writing 	 When students of English think, they Reflect on multiple texts Ask questions of the author Consider research or others ideas Discuss ideas and themes Argue both sides of a point