CRITICAL THINKING rubric – Fall 2018

	1	2	3	4	5
	significantly below expectations		competence		significantly exceeding expectations
Develop & evaluate arguments	- does not understand components & framework of argument - doesn't know what an argument is		- follows logic / understands framework & can assemble components accurately - understand claim & evidence - knows components		- builds effective/persuasive argument on evidence - make use of ideas in new way - new investigations
Analyze, synthesize & evaluate ideas as part of the creative process	- rote memorization - passive regurgitation		 analyze & evaluate ideas understand reasoning see relevance to self and other things 		- make new / individual progress based on understanding of ideas - build out - devise further investigations - write additional compositions
Assess the validity of both qualitative & quantitative evidence	 unquestioning unreliable information / use of data no consideration of the data sources no or unreasonable conclusions 		uncritical use of accurate dataapply data to conclusions		 critically evaluating and using and synthesizing accurate data draw reasonable conclusions
Apply diverse disciplinary approaches &	inability to see past their own perspective - inability to recognize other / diverse perspectives - does not apply different approaches to the problem - only apply one perspective		- recognizing other perspectives, but w/o systematic engagement / applications		- seeking out diverse interdisc. perspectives & appying it w/in their work w/ purpose - effective analysis based on many perspectives - enriching their own work - community perspectives
Employ the scientific method	- cannot understand structural process & problem solving - begin with conclusions and match data - works backwards - no controls - no clear measurements - vague hypothesis - cannot distinguish or identify different changing conditions - cannot analyze trends in data - deliberately change more than one condition - allows multiple conditions to change during the experiment		- can methodically employ logical systematic steps to problem solve - know what data supports a trend / the hypothesis - can understand and follow steps in a protocol		- patient persistant, flexible methoology to problem solving - everything in "competence" score, and can identify imperfections with measurements / techniques - can identify sources of error in experiment - can develop further experiments / improve a repeat experiment