

Aspects of the Michigan K-12 Science Standards and the Common Core State Standards for English Language Arts that are addressed during each stage of Argument-Driven Inquiry

Grade 6-8

Stage of ADI	Framework for K-12 Science Education*	Common Core State Standards for English-Language Arts		
		Reading	Writing	Speaking and Listening
1. Identification of the Task and the Guiding Question	SEP.1	RST.6-8.1 RST.6-8.2 RST.6-8.4 RST.6-8.5		
2. Design a Method and Collect Data	SEP.2 SEP.3 SEP.8		WHST.6-8.7 WHST.6-8.9	
3. Analyze Data and Develop an Initial Argument	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7	RST.6-8.7	WHST.6-8.7 WHST.6-8.9	SL.6-8.4 SL.6-8.5
4. Argumentation Session	SEP.1 SEP.4 SEP.5 SEP.7 SEP.8			SL.6-8.1a SL.6-8.3 SL.6-8.1b SL.6-8.4 SL.6-8.1c SL.6-8.5 SL.6-8.1d SL.6-8.6 SL.6-8.2
5. Explicit and Reflective Discussion	SEP.1 SEP.8			SL.6-8.1a SL.6-8.1c SL.6-8.1d SL.6-8.2
6. Write an Investigation Report	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7 SEP.8		WHST.6-8.1a WHST.6-8.2c WHST.6-8.1b WHST.6-8.2d WHST.6-8.1c WHST.6-8.2e WHST.6-8.1d WHST.6-8.4 WHST.6-8.1e WHST.6-8.9 WHST.6-8.2a WHST.6-8.10 WHST.6-8.2b	
7. Double Blind Group Peer Review	SEP.8	RST.6-8.1 RST.6-8.2 RST.6-8.4 RST.6-8.5 RST.6-8.7 RST.6-8.8 RST.6-8.9		
8. Revise and Submit the Report	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7 SEP.8		WHST.6-8.5 WHST.6-8.6 WHST.6-8.10	

* Performance Expectations MS-PS1-1-6, MS-PS2-1-5, MS-PS3-1-5, MS-PS4-3, MS-LS1-1-8, MS-LS2-1-5, MS-LS3-1-2, MS-LS4-1-6, MS-ESS1-1-4, MS-ESS2-1-6, and MS-ESS3-1-5 are addressed during specific ADI lab investigations



Aspects of the Michigan K-12 Science Standards and the Common Core State Standards for English Language Arts that are addressed during each stage of Argument-Driven Inquiry

Grade 9-10 (Biology)

Stage of ADI	Framework for K-12 Science Education*	Common Core State Standards for English-Language Arts		
		Reading	Writing	Speaking and Listening
1. Identification of the Task and the Guiding Question	SEP.1	RST.9-10.1 RST.9-10.2 RST.9-10.4 RST.9-10.5		
2. Design a Method and Collect Data	SEP.2 SEP.3 SEP.8		WHST.9-10.7 WHST.9-10.9	
3. Analyze Data and Develop an Initial Argument	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7	RST.9-10.7	WHST.9-10.7 WHST.9-10.9	SL.9-10.4 SL.9-10.5
4. Argumentation Session	SEP.1 SEP.4 SEP.5 SEP.7 SEP.8			SL.9-10.1a SL.9-10.3 SL.9-10.1b SL.9-10.4 SL.9-10.1c SL.9-10.5 SL.9-10.1d SL.9-10.6 SL.9-10.2
5. Explicit and Reflective Discussion	SEP.1 SEP.8			SL.9-10.1a SL.9-10.1c SL.9-10.1d SL.9-10.2
6. Write an Investigation Report	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7 SEP.8		WHST.9-10.1a WHST.9-10.2c WHST.9-10.1b WHST.9-10.2d WHST.9-10.1c WHST.9-10.2e WHST.9-10.1d WHST.9-10.4 WHST.9-10.1e WHST.9-10.9 WHST.9-10.2a WHST.9-10.10 WHST.9-10.2b	
7. Double Blind Group Peer Review	SEP.8	RST.9-10.1 RST.9-10.2 RST.9-10.4 RST.9-10.5 RST.9-10.6 RST.9-10.8 RST.9-10.9		
8. Revise and Submit the Report	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7 SEP.8		WHST.9-10.5 WHST.9-10.6 WHST.9-10.10	

* Performance Expectations HS-LS1-1-7, HS-LS2-1-8, HS-LS3-1-3, and HS-LS4-1-5 are addressed during specific ADI lab investigations



Aspects of the Michigan K-12 Science Standards and the Common Core State Standards for English Language Arts that are addressed during each stage of Argument-Driven Inquiry

Grade 11-12 (Chemistry and Physics)

Stage of ADI	Framework for K-12 Science Education*	Common Core State Standards for English-Language Arts		
		Reading	Writing	Speaking and Listening
1. Identification of the Task and the Guiding Question	SEP.1	RST.11-12.1 RST.11-12.2 RST.11-12.4		
2. Design a Method and Collect Data	SEP.2 SEP.3 SEP.8		WHST.11-12.7 WHST.11-12.8	
3. Analyze Data and Develop an Initial Argument	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7		WHST.11-12.7 WHST.11-12.8	SL.11-12.4 SL.11-12.5
4. Argumentation Session	SEP.1 SEP.4 SEP.5 SEP.7 SEP.8			SL.11-12.1a SL.11-12.2 SL.11-12.1b SL.11-12.3 SL.11-12.1c SL.11-12.4 SL.11-12.1d SL.11-12.5 SL.11-12.6
5. Explicit and Reflective Discussion	SEP.1 SEP.8			SL.11-12.1a SL.11-12.1c SL.11-12.1d
6. Write an Investigation Report	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7 SEP.8		WHST.11-12.1a WHST.11-12.2c WHST.11-12.1b WHST.11-12.2d WHST.11-12.1c WHST.11-12.2e WHST.11-12.1d WHST.11-12.4 WHST.11-12.1e WHST.11-12.9 WHST.11-12.2a WHST.11-12.10 WHST.11-12.2b	
7. Double Blind Group Peer Review	SEP.8	RST.11-12.1 RST.11-12.2 RST.11-12.4 RST.11-12.6 RST.11-12.8 RST.11-12.9		
8. Revise and Submit the Report	SEP.2 SEP.4 SEP.5 SEP.6 SEP.7 SEP.8		WHST.11-12.5 WHST.11-12.6 WHST.11-12.10	

* Disciplinary Core Idea HS-PS1-8, HS-PS2-1-6, HS-PS3-1-5, and HS-PS4-1-5 are addressed during specific ADI lab investigations