

Competencies to be entered to Formative – Discovery High School

Math:	M.C1 Mathematical Process Student can apply mathematical concepts to interpret and conduct mathematical procedures with precision and fluency.
	M.C2 Mathematical Modeling Student can analyze real world scenarios and construct and use appropriate mathematical models precisely to interpret and solve problems.
	M.C3 Mathematical Application Students solve a complex problem using applied mathematics, making productive use of knowledge and problem-solving strategies.
	M.C4 Mathematical Communication Student can clearly and precisely construct viable mathematical arguments to justify and support their own reasoning and critique the reasoning of others. Adapting their communication to specific contexts, audiences, and purposes.
	M.C5 Use of Mathematical Tools/Technology Student shows evidence of appropriate use of available tools and/or technology when solving a mathematical problem. Students can make sound decisions when tools and/or technology is helpful and can be useful to recognize gained insight and limitations.
Science	SCI.C1 Lead Scientific Investigations Students will take on the role of scientists and engineers to lead scientist inquiries using the scientific method.
	SCI.C2 Apply Mathematical Skill Students will be able to demonstrate their ability to apply mathematical processes to solve problems when conducting investigations, analyzing information, and displaying information.
	SCI.C3 Develop & Use Scientific Models Students will develop and use models to describe and make predictions about scientific phenomena.
	SCI.C4 Scientific Writing / Literacy Students will use literacy tools to make sense of and communicate core ideas in science and how it helps to explain phenomena in the real world.
	SCI.C5 Use Tools Skillfully Students will use a variety of technological tools appropriately and in the right context to enhance their ability to analyze, synthesize, plan, evaluate, create, design, and invent.
English Language Arts	ELA.C1 Reading Literature Demonstrate the ability to comprehend, analyze, and critique a variety of increasingly complex print and non-print literary texts
	ELA.C2 Reading Informational Texts Demonstrate the ability to comprehend, analyze, and critique a variety of increasingly complex print and non-print informational texts.
	ELA.C3 Writing Arguments Demonstrate the ability to analyze and critique texts or topics and support claims and reasoning with sufficient evidence for intended purpose and audience.

	ELA.C4 Explanatory Writing Demonstrate the ability to effectively write informative texts to examine and convey complex ideas for variety of purposes and audiences.
	ELA.C5 Narrative Writing Demonstrate the ability to effectively apply narrative strategies for variety of purposes and audiences.
	ELA.C6 Listening Demonstrate the ability to listen and view critically for variety of purposes.
	ELA.C7 Speaking Demonstrate the ability to speak purposefully and effectively- strategically making decisions about content, language Use, and discourse style.
	ELA.C8 Language Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
	ELA.C9 Research/Inquiry Students will engage in research projects to investigate, analyze, synthesize, integrate, and present information, demonstrating an understanding of the use of credible, relevant, appropriate, and reliable sources.
	ELA.C10 Technology Demonstrate the ability to use tools of technology to gather, interpret, and analyze information and create sharable products.

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Springfield Public Schools

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Mathematic Competencies

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Grade 9-12 Math Competencies

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Springfield PS Competency List

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Pre-K

K

1st

2nd

3rd

4th

5th

6th

7th

8th

9th

10th

11th

12th

Vocational Training


Professional Education & Further Development

Higher Education

Four Year College

Two Year College

Life-long Learning

Outline	Standard	Abbreviation
E.g. I, II, III or A, B, C, etc	The text of the standard	The shorthand identifier e.g. 1.NBT.4
I	Mathematics	
1	Mathematical Process: Student can apply mathematical concepts to interpret and conduct mathematical procedures with precision and fluency.	M.C1