
Coal City Unit District #1
S.T.E.M. - 6
Science Curriculum

SC.STEM6:1 Students will use the Engineering Process to solve a problem (MS-ETS1, NGSS SEPs)

SC.STEM6:1-1	Describe a design problem
SC.STEM6:1-2	Identify multiple solutions for a problem
SC.STEM6:1-3	Design a solution for a problem
SC.STEM6:1-4	Analyze collected data
SC.STEM6:1-5	Evaluate the effectiveness of a solution
SC.STEM6:1-6	Revise a solution based on reflection
SC.STEM6:1-7	Communicate the outcome of the process

SC.STEM6:2 Students will demonstrate a knowledge of basic programming (CSTA 2)

SC.STEM6:2-1	Explain the importance of planning in coding
SC.STEM6:2-2	Use computational thinking to create a solution pathway
SC.STEM6:2-3	Identify the different ways to use “turn” instructions
SC.STEM6:2-4	Analyze a sequence of instructions being followed
SC.STEM6:2-5	Incorporate mathematical concepts in the program
SC.STEM6:2-6	Implement problem solutions using a programming language. (e.g. looping behavior, variables, conditionals)

SC.STEM6:3 Students will demonstrate the characteristics of digital citizenship and personal internet safety (ISTE 2)

SC.STEM6:3-1	Identify how to maintain a balance between online and offline activities.
SC.STEM6:3-2	Discuss ways identity theft can occur online.
SC.STEM6:3-3	Evaluate the effects of posting from multiple, or fake, social media accounts.
SC.STEM6:3-4	Determine what information can be shared safely with people online.
SC.STEM6:3-5	Reflect on the effects of digital drama.
SC.STEM6:3-6	Evaluate the credibility of information found on the internet.