|----------------------------------|------------------------|--------------------------------|---------------------------|-----------------------|--------|
| S1. Asking questions (for science) and defining problems (for engineering) | M1. Make sense of problems and persevere in solving them | E1. They demonstrate independence | CS1. Fostering an Inclusive Computing Culture | 1. Act as a responsible and contributing citizen and employee. | 1. Learning & Innovation  
Creativity and innovation  
Critical thinking and problem solving  
Communication and collaboration |
| S2. Developing and using models | M2. Reason abstractly and quantitatively | E2. They build strong content knowledge | CS2. Collaborating Around Computing | 2. Apply appropriate academic and technical skills. | 2. Information, Media and Technology  
Information literacy  
Media literacy  
Information, communications and technology literacy |
| S3. Planning and carrying out investigations | M3. Construct viable arguments and critique the reasoning of others | E3. They respond to the varying demands of audience, task, purpose, and discipline | CS3. Recognizing and Defining Computational Problems | 3. Attend to personal health and financial well being. | 3. Life and Career  
Flexibility and adaptability  
Initiative and self-direction  
Social and cross-cultural skills  
Productivity and accountability  
Leadership and responsibility |
21st Century Themes  
Global awareness  
Financial, economic, business and entrepreneurial literacy  
Civic literacy  
Health literacy  
Environmental literacy |
| S5. Using mathematics and computational thinking | M5. Use appropriate tools strategically | E5. They value evidence | CS5. Creating Computational Artifacts | 5. Consider the environmental, social and economic impacts of decisions. | |
| S8. Obtaining, evaluating, and communicating information | M8. Look for and express regularity in repeated reasoning | | | 8. Utilize critical thinking to make sense of problems and persevere in solving them. | |

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