Science and Technology and Engineering
3.2.5.B1 Explain how mass of an object resists change to motion.
3.2.6.B1 Explain how changes in motion require a force.
3.4.5.A1 Understand that a subsystem is a system that operates as part of a larger system.
3.4.5.A2 Explain how people use tools and techniques to help them do things.
3.4.5.A3 Describe how technologies are often combined.
3.4.5.C1 Explain how the design process is a purposeful method of planning practical solutions to problems.
3.4.5.C2 Describe how design, as a dynamic process of steps, can be performed in different sequences and repeated.
3.4.5.C3 Identify how invention and innovation are creative ways to turn ideas into real things.
3.4.5.D1 Identify ways to improve a design solution.
3.4.5.D2 Use information provided in manuals, protocols, or by experienced people to see and understand how things work.
3.4.5.E4 Describe how the use of symbols, measurements, and drawings promotes clear communication by providing a common language to express ideas.
3.4.6.A2 Describe how systems thinking involves considering how every part relates to others.
3.4.6.A3 Explain how knowledge from other fields of study (STEM) integrate to create new technologies.

Reading, Writing, Speaking
1.1.5.F Identify, understand the meaning of and use correctly key vocabulary from various subject areas.
1.2.5.A Read and understand essential content of informational texts and documents in all academic areas.
1.5.5.A Write with a sharp, distinct focus identifying topic, task and audience.
1.5.5.B Write using well-developed content appropriate for the topic.
1.5.8.A Listen to others.
1.5.8.C Speak using skills appropriate to formal speech situations.
1.5.8.D Contribute to discussions.
1.6.5.A Listen to others.
1.6.5.C Speak using skills appropriate to formal speech situations.
1.6.5.D Contribute to discussions.
1.6.5.E Participate in small and large group discussions and presentations.
1.6.5.F Use media for learning purposes.
1.8.5.B Locate information using appropriate sources and strategies.

Mathematics
2.1.5.D Use models to represent fractions and decimals.
2.2.8.A Complete calculations by applying the order of operations.
2.3.5 A Select and use appropriate instruments and units for measuring quantities
2.3.5.B Select and use standard tools to measure the size of figures with specified accuracy, including length, width, perimeter and area.
2.3.5.C Estimate, refine and verify specified measurements of objects.
2.3.5.D Convert linear measurements within the same system.
2.3.5.E Add and subtract measurements.
2.5.5.A Develop a plan to analyze a problem, identify the information needed to solve the problem, carry out the plan, check whether an answer makes sense and explain how the problem was solved.
2.5.5.C Show ideas in a variety of ways, including words, numbers, symbols, pictures, charts, graphs, tables, diagrams and models.
2.5.5.F Use appropriate problem-solving strategies
2.5.9.A Give formal definitions of geometric figures.
2.9.5.C Identify and measure circles, their diameters and their radii.
2.9.5.D Describe in words how geometric shapes are constructed. 2.9.5.E Construct two- and three-dimensional shapes and figures using manipulatives, geoboards and computer software.
2.9.5.L Identify properties of geometric figures (e.g., parallel, perpendicular, similar, congruent, symmetrical).
2.10.5.A Identify and compare parts of right triangles, including right angles, acute angles, hypotenuses and legs.

Career Education and Work
13.2.5 A Apply appropriate speaking and listening techniques used in conversation.
13.2.5 E Apply to daily activities, the essential workplace skills, such as, but not limited to:
   - Commitment
   - Communication
   - Dependability
Health/safety
Personal initiative
Scheduling/time management
Team building
Technical literacy
Technology

13.3.5 F Identify effective group interaction strategies, such as, but not limited to:
   Building consensus
   Communicating effectively
   Establishing ground rules
   Listening to others