

# CTE (2013): Grades 9, 10, 11, 12

Adopted 2013

## 4C/Creativity, Critical Thinking, Communication and Collaboration

### 4C1. Students will think and work creatively to develop innovative solutions to problems and opportunities. 4C1

- a. Develop original solutions, products and services to meet a given need. 4C1.A
  - h. Develop original ways to solve a given problem. 4C1.A.7.H
  - h. Design a product or service that could fulfill a human need or desire. 4C1.A.8.H
  - h. Apply past experiences to current problems in developing innovative solutions. 4C1.A.9.H
- b. Work creatively with others to develop solutions, products and services. 4C1.B
  - h. Incorporate the skills and experiences of others to develop a new solution to a problem. 4C1.B.7.H
  - h. Work as part of a team to design a product or service that could fulfill a human need or desire. 4C1.B.8.H
  - h. Work as part of a team to improve an existing product or process. 4C1.B.9.H

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**4C2. Students will formulate and defend judgments and decisions by employing critical thinking skills. 4C2**

- a. Develop effective resolutions for a given problem, decision or opportunity using available information. 4C2.A
  - h. Determine the information needed to address an identified problem. 4C2.A.11.H
  - h. Contrast the benefits and drawbacks of various proposed resolutions to a given situation. 4C2.A.12.H
  - h. Predict how an action could result in unintended consequences, both positive and negative. 4C2.A.13.H
  - h. Analyze the impact of a decision using a systems thinking model. 4C2.A.14.H
  - h. Determine the best resolution for a problem, decision or opportunity based on given criteria. 4C2.A.15.H
  - h. Defend an action taken or a decision implemented. 4C2.A.16.H
- b. Develop and implement a resolution for a new situation using personal knowledge and experience. 4C2.B
  - h. Apply past experience to develop a course of action for a new situation. 4C2.B.5.H
  - h. Use existing knowledge to develop a resolution for a new situation, problem or opportunity. 4C2.B.6.H

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**4C3. Students will communicate and collaborate with others to accomplish tasks and develop solutions to problems and opportunities. 4C3**

- a. Communicate thoughts and feelings with others using verbal and non-verbal language. 4C3.A
    - h. Develop a mutually acceptable response to a question or problem. 4C3.A.9.H
    - h. Distinguish between what a person says and what their expressions and body language indicate. 4C3.A.10.H
    - h. Communicate effectively in the presence of a language barrier. 4C3.A.11.H
    - h. Utilize effective listening skills in creating consensus in a group. 4C3.A.12.H
  - b. Work collaboratively with others. 4C3.B
    - h. Participate in group processes to generate consensus. 4C3.B.7.H
    - h. Lead group processes to generate consensus. 4C3.B.8.H
    - h. Incorporate the use of technology to productively plan, implement and evaluate a solution, process or procedure. 4C3.B.9.H
  - c. Use interpersonal skills to resolve conflicts with others in an ethical manner. 4C3.C
    - h. Resolve conflicts productively with individuals as they arise. 4C3.C.7.H
    - h. Lead a team or group through a conflict resolution process to reach a productive outcome. 4C3.C.8.H
    - h. Defend personal ethics applied to common conflicts that arise during group interactions and team activities. 4C3.C.9.H
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## CD/Career Development

### **CD1. Students will consider, analyze and apply an awareness of self, identity and culture to identify skills and talents. CD1**

- a. Identify person strengths, aptitudes and passions. **CD1.A**
  - h. Evaluate various occupations and career pathways to identify personal, academic and career goals based on personal strengths, aptitudes and passions. **CD1.A.3.H**
- b. Demonstrate effective decision-making, problem solving and goal setting. **CD1.B**
  - h. Use a decision-making and problem-solving model. **CD1.B.5.H**
  - h. Develop an action plan to set and achieve realistic goals. **CD1.B.6.H**
- c. Interact effectively with others in similar and diverse teams. **CD1.C**
  - h. Assess cultural differences and work effectively with people from a range of social and cultural backgrounds. **CD1.C.9.H**
  - h. Critique different ideas and values while leveraging social and cultural differences to increase innovation, new ideas and quality of work. **CD1.C.10.H**
  - h. Evaluate how the personal strengths and assets of others contribute to a cooperative group atmosphere. **CD1.C.11.H**
  - h. Assess how respect and appreciation for individual and cultural differences impacts group processes. **CD1.C.12.H**
- d. Apply a range of relevant decision-making strategies. **CD1.D**
  - h. Predict the outcome of various decisions on personal, social and career success. **CD1.D.5.H**
  - h. Evaluate the impact of personal decision-making strategies on specific outcomes. **CD1.D.6.H**

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**CD2. Students will identify the connection between educational achievement and work opportunities in order to reach personal and career goals. CD2**

- a. Apply academic experiences to the world of work, inter-relationships and the community. CD2.A
  - h. Evaluate how performance and connections within the learning community enhance future opportunities. CD2.A.3.H
  - h. Determine those opportunities that best support attainment of a specific career goal. CD2.A.4.H
- b. Assess attitudes and skills that contribute to successful learning in school and across the life span. CD2.B
  - h. Interpret and analyze the impact of current education, training and work trends on life, learning and career plans. CD2.B.7.H
  - h. Assess education and training opportunities to acquire new skills necessary for career advancement. CD2.B.8.H
  - h. Analyze local and regional labor market and job growth information to select a career pathway for potential advancement. CD2.B.9.H

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**CD3. Students will create and manage a flexible and responsive individualized learning plan to meet their career goals. CD3**

- a. Investigate the world of work in order to gain knowledge of self in order to make informed career decisions. **CD3.A**
  - h. Analyze how career plans may be affected by personal growth, external events and changes in motivations and aspirations. **CD3.A.10.H**
  - h. Apply academic and employment readiness skills in work-based learning situations such as internships, shadowing and/or mentoring experiences. **CD3.A.11.H**
  - h. Evaluate changes in local, national and global employment trends, societal needs and economic conditions related to career planning. **CD3.A.12.H**
  - h. Recognize how chance opportunities integrate with learning and career goals. **CD3.A.13.H**
  - h. Implement an individual learning plan to maximize academic ability and achievement. **CD3.A.14.H**
- b. Examine and evaluate opportunities that could enhance life and career plans and articulate plan to guide decisions and actions. **CD3.B**
  - h. Implement strategies for responding to transition and change with flexibility and adaptability. **CD3.B.4.H**
  - h. Evaluate the relationship between educational achievement and career development. **CD3.B.5.H**
- c. Employ career management strategies to achieve future career success and satisfaction. **CD3.C**
  - h. Determine how principles of equal opportunity, equity, respect, inclusiveness and fairness, affect career planning and management. **CD3.C.5.H**
  - h. Discuss how adaptability and flexibility, especially when initiating or responding to change, contributes to career success. **CD3.C.6.H**

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**CD4. Students will identify and apply employability skills. CD4**

- a. Identify and demonstrate positive work behaviors and personal qualities needed to be employable. **CD4.A**
    - h. Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status. **CD4.A.6.H**
    - h. Assess how flexibility and willingness to learn new knowledge and skills affect employment status. **CD4.A.7.H**
    - h. Apply communication strategies when adapting to a culturally diverse environment. **CD4.A.8.H**
    - h. Use positive work-qualities typically desired in each of the career cluster's pathways. **CD4.A.9.H**
    - h. Manage work roles and responsibilities to balance them with other life roles and responsibilities. **CD4.A.10.H**
  - b. Demonstrate skills related to seeking and applying for employment to find and obtain a desired job. **CD4.B**
    - h. Use multiple resources to locate job opportunities. **CD4.B.5.H**
    - h. Prepare a resume, cover letter, employment application. **CD4.B.6.H**
    - h. Employ critical thinking and decision-making skills to exhibit qualifications to a potential employer in an interview. **CD4.B.7.H**
  - c. Identify and exhibit traits for retaining employment. **CD4.C**
    - h. Model behaviors that demonstrate reliability and dependability. **CD4.C.4.H**
    - h. Maintain appropriate dress and behavior for the job to contribute to a safe and effective workplace/jobsite. **CD4.C.5.H**
    - h. Complete required employment forms and documentation. **CD4.C.6.H**
    - h. Summarize key activities necessary to retain a job in an industry. **CD4.C.7.H**
  - d. Develop positive relationships with others. **CD4.D**
    - h. Participate in co-curricular and community activities to enhance the school experience. **CD4.D.5.H**
    - h. Evaluate the best method to assist co-workers in accomplishing goals and tasks. **CD4.D.6.H**
    - h. Examine the skills required to enable students to successfully transition to post-secondary opportunities. **CD4.D.7.H**
    - h. Use a systematic approach to academic and career planning for students to achieve their learning, socio-cultural and work goals. **CD4.D.8.H**
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**EHS1. Students will identify the importance and interrelationships of health, safety and environmental systems and evaluate the impacts of these systems on organizational performance for continuous improvement. EHS1**

- a. Assess the interdependency among natural and human-built systems, including social, ecological and economic health. EHS1.A
    - h. Assess systems dynamics, including constant change and carrying capacity within social, ecological and economic systems. EHS1.A.9.H
    - h. Evaluate the societal, ecological and economic costs and benefits of allocating resources in various ways. EHS1.A.10.H
    - h. Identify strategies to maintain societal, ecological and environmental health. EHS1.A.11.H
    - h. Evaluate the impact of personal choices on the interactions or interdependency between natural and human-built systems. EHS1.A.12.H
    - h. Assess how the human-built environment can be designed or modified to promote ecological and economic health and provide a better quality of life. EHS1.A.13.H
  - b. Engage in systems thinking and inquiry processes that identify problems while analyzing the impacts of decisions made now and in the future. EHS1.B
    - h. Formulate a plan of action that addresses a current issue that considers the impact on social, economic and ecological systems now and in the future. EHS1.B.5.H
    - h. Communicate the results of an investigation of current issues' effects on social, economic and ecological systems. EHS1.B.6.H
  - c. Develop solutions to social, economic and ecological problems without compromising the ability of future generations to meet their needs. EHS1.C
    - h. Analyze political, educational, economic and governmental influences on systems and identify the roles individuals play within the systems. EHS1.C.7.H
    - h. Explain the factors that contribute to the development of social, economic and ecological systems issues and policies. EHS1.C.8.H
    - h. Formulate a plan to maintain or improve some part of the local or regional social, economic or ecological system. EHS1.C.9.H
  - d. Implement personal and jobsite safety rules and regulations to maintain and improve safe and healthful working conditions and environments. EHS1.D
    - h. Assess workplace conditions with regard to personal and environmental health and safety. EHS1.D.7.H
    - h. Identify different workplace systems that protect and enhance personal and environmental health and safety. EHS1.D.8.H
    - h. Describe employee rights and responsibilities to maintain workplace health and safety, including compliance with rules and laws. EHS1.D.9.H
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## GCA/Global and Cultural Awareness

### **GCA1. Students will propose solutions and initiatives related to global issues.** GCA1

- a. Evaluate the effects of diversity encountered through interactions with people in or from other parts of the community, state, nation and world. GCA1.A
  - h. Interpret how differences will affect people's interactions in their own communities and when traveling to other regions and countries. GCA1.A.7.H
  - h. Explain the differences between communities located near one another as well as, between nations. GCA1.A.8.H
  - h. Predict the effects of a new group of people moving into an existing community. GCA1.A.9.H
- b. Explain how events in one part of the world affect nations, communities and individuals in other parts of the world. GCA1.B
  - h. Predict how a recent global event could affect community and self. GCA1.B.7.H
  - h. Describe events where conflicts escalated to become national or global conflicts. GCA1.B.8.H
  - h. Describe how diversity has impacted local, national or global challenges. GCA1.B.9.H
- c. Explain how diverse groups of people can work together to overcome local, national, regional and global crises. GCA1.C
  - h. Explain how diverse groups could work collectively to resolve a local problem or challenge. GCA1.C.7.H
  - h. Analyze how diversity has contributed to successful resolution of global challenges. GCA1.C.8.H
  - h. Predict how diverse nations may work together in addressing current global challenges and issues. GCA1.C.9.H

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### **GCA2. Students will assess the benefits and challenges of working in diverse settings and on diverse teams.** GCA2

- a. Work effectively with diverse individuals in a variety of settings and contexts. GCA2.A
    - h. Collaborate with others in the presence of language, personality and cultural differences. GCA2.A.6.H
    - h. Collaborate with diverse individuals to accomplish tasks in personal, school, work and community contexts. GCA2.A.7.H
  - b. Develop innovative solutions and initiatives as part of a diverse team. GCA2.B
    - h. Develop ideas for using awareness of diversity to create new opportunities. GCA2.B.7.H
    - h. Synthesize the experiences of a diverse group to develop innovative solutions to a given problem. GCA2.B.8.H
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## IMT/Information, Media and Technology Skills

### **IMT1. Students will access, interpret and evaluate information from a variety of sources in order to inform and support premises, arguments, decisions, ideas and initiatives. IMT1**

- a. Choose appropriate sources of data and information for a given purpose. **IMT1.A**
  - h. Justify the selection of various information sources for a given purpose. **IMT1.A.6.H**
  - h. Explain the level of objectivity for a given source of information. **IMT1.A.7.H**
  - h. Model how raw data can be applied differently to support opposing arguments or premises. **IMT1.A.8.H**
- b. Determine the relevance, validity and timeliness of data and information. **IMT1.B**
  - h. Use raw data and information appropriately to support an argument, idea or initiative. **IMT1.B.7.H**
  - h. Compare and contrast validity of information from electronic and non-electronic sources. **IMT1.B.8.H**
  - h. Defend a position or decision using relevant, valid and timely data and information. **IMT1.B.9.H**
- c. Select relevant information necessary for making decisions and solving problems. **IMT1.C**
  - h. Defend a solution or conclusion using appropriate data and information. **IMT1.C.5.H**
  - h. Interpret and select appropriate information to develop a resolution for a given situation. **IMT1.C.6.H**
- d. Apply data and information to communicate ideas and create new opportunities. **IMT1.D**
  - h. Defend a proposal for a new product or service based on data and information analysis. **IMT1.D.6.H**
  - h. Synthesize data and information from multiple sources to identify new trends. **IMT1.D.7.H**
  - h. Manage and share stored data and information for a specific purpose. **IMT1.D.8.H**

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**IMT2. Students will apply information literacy skills to access and evaluate media to design and produce media products.** IMT2

- a. Analyze media messages to determine biases and objectivity. IMT2.A
  - h. Defend the selection of various media formats for a given purpose. IMT2.A.7.H
  - h. Compare and contrast the level of objectivity for given media sources. IMT2.A.8.H
  - h. Portray information in different ways to account for different audiences. IMT2.A.9.H
- b. Prepare media products in order to communicate a specific message. IMT2.B
  - h. Create media products to communicate a given message to different audiences. IMT2.B.4.H
  - h. Compare and contrast the elements of media products and how each helps deliver a desired message. IMT2.B.5.H

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**IMT3. Students will use available information and communication technology to improve productivity, solve problems and create opportunities.** IMT3

- a. Adopt new technological tools to increase personal and organizational productivity. IMT3.A
    - h. Adapt and refine technology to continuously improve management of data in daily activity. IMT3.A.9.H
    - h. Integrate technological tools to efficiently create and manage correspondence in daily activity. IMT3.A.10.H
    - h. Adapt and refine technology to continuously improve personal and organizational productivity. IMT3.A.11.H
    - h. Manage use of technology to reduce negative impacts on productivity. IMT3.A.12.H
  - b. Select and use communication and information technology to help solve problems and provide opportunities. IMT3.B
    - h. Use communication and information technology to effectively solve a given problem. IMT3.B.7.H
    - h. Explain how communication and information technology could help address a current national or global problem. IMT3.B.8.H
    - h. Assess the use of communication and information technology to create new opportunities. IMT3.B.9.H
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## LE/Leadership

### **LE1. Students will apply leadership skills in real-world, family, community and business and industry applications. LE1**

- a. Implement leadership skills to accomplish team goals and objectives. **LE1.A**
  - h. Exhibit skills such as compassion, service, listening, coaching, developing others, team development. **LE1.A.10.H**
  - h. Demonstrate skills such as enthusiasm, creativity, conviction, mission, courage, concept, focus, principle-centered living and change when interacting with others in general. **LE1.A.11.H**
  - h. Exhibit skills such as innovation, intuition, adaptation, life-long learning and coach-ability to develop leadership potential over time. **LE1.A.12.H**
  - h. Create a sense of trust, positive attitude, integrity, willingness and commitment in order to accept key responsibilities in a group project. **LE1.A.13.H**
  - h. Apply parliamentary procedure to an appropriate situation. **LE1.A.14.H**
- b. Employ teamwork skills to achieve collective goals and use team members/talents effectively. **LE1.B**
  - h. Capitalize on team members' individual talents and skills in a project. **LE1.B.7.H**
  - h. Apply conflict management skills to help facilitate solutions. **LE1.B.8.H**
  - h. Evaluate and apply teamwork processes that provide team building, consensus, continuous improvement, respect for the opinions of others, cooperation, adaptability and conflict resolution. **LE1.B.9.H**
  - h. Demonstrate the ability to negotiate and adapt effectively to changes in projects and work activities to meet timelines. **LE1.B.10.H**
- c. Identify the role of community service and service learning in family, community and business and industry. **LE1.C**
  - h. Assess the roles and responsibilities of citizenship and formulate an activity or event to showcase community service. **LE1.C.6.H**
  - h. Plan a community service event, participate in the event and evaluate its impact. **LE1.C.7.H**
  - h. Plan and participate in activities that rate skills necessary to be a successful leader and citizen. **LE1.C.8.H**
  - h. Advocate for issues on the local, state and international level. **LE1.C.9.H**
  - h. Identify components and structure of community-based organizations. **LE1.C.10.H**
  - h. Participate in the development of a program of work/strategic plan and work to implement the organization's goals. **LE1.C.11.H**