NORTH CAROLINA ESSENTIAL STANDARDS

Information and Technology

Grade: Kindergarten
Course: Informational Text
NCES.K.IN.1 - Understand the difference between text read for enjoyment and text read for information.
  NCES.K.IN.1.1 - Understand the meaning of fiction and nonfiction.
  NCES.K.IN.1.2 - Identify resources with appropriate factual information.

Course: Research Process
NCES.K.RP.1 - Understand the importance of good questions in conducting research.
  NCES.K.RP.1.1 - Identify questions that are relevant for a given topic or purpose.

Course: Safety and Ethical Issues
NCES.K.SE.1 - Remember safety and ethical issues related to the responsible use of information and technology resources.
  NCES.K.SE.1.1 - Identify examples of responsible use and care of technology hardware and software.
  NCES.K.SE.1.2 - Remember internet safety rules.
  NCES.K.SE.1.3 - Recognize the importance of respect for the work of others.

Course: Sources of Information
NCES.K.SI.1 - Classify useful sources of information.
  NCES.K.SI.1.1 - Identify sources of information (e.g., print, non-print, electronic, people).
  NCES.K.SI.1.2 - Identify the relevant sources of information for a given task.

Course: Technology as a Tool
NCES.K.TT.1 - Use technology tools and skills to reinforce classroom concepts and activities.
  NCES.K.TT.1.1 - Use a variety of technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
  NCES.K.TT.1.2 - Use a variety of technology tools to organize data and information (e.g., word processor, graphic organizer, audio and visual recording, online collaboration tools, etc.).
  NCES.K.TT.1.3 - Use technology tools to present data and information (multimedia, audio and visual recording, online collaboration tools, etc.).

Grade: Grade 1
Course: Informational Text
NCES.1.IN.1 - Understand the difference between text read for enjoyment and text read for information.
  NCES.1.IN.1.1 - Classify text as nonfiction or fiction.
  NCES.1.IN.1.2 - Compare important facts and minor details.

Course: Research Process
NCES.1.RP.1 - Remember the steps of a simple (or simplified) research process.
  NCES.1.RP.1.1 - Recognize the steps of a simple (or simplified) research process.
Course: Safety and Ethical Issues
NCES.1.SE.1 - Understand safety and ethical issues related to the responsible use of information and technology resources.
  NCES.1.SE.1.1 - Use technology hardware and software responsibly.
  NCES.1.SE.1.2 - Explain why safety is important when using the Internet.
  NCES.1.SE.1.3 - Recognize the need to obtain permission or give credit when using intellectual property of others.

Course: Sources of Information
NCES.1.SI.1 - Recall useful sources of information.
  NCES.1.SI.1.1 - Identify various resources for information (e.g., print, audio-visual, electronic, people).
  NCES.1.SI.1.2 - Classify resources as relevant for a given purpose and/or topic.

Course: Technology as a Tool
NCES.1.TT.1 - Use technology tools and skills to reinforce classroom concepts and activities.
  NCES.1.TT.1.1 - Use a variety of technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
  NCES.1.TT.1.2 - Use a variety of technology tools to organize data and information (e.g., word processor, graphic organizer, audio and visual recording, online collaboration tools, etc.).
  NCES.1.TT.1.3 - Use technology tools to present data and information (multimedia, audio and visual recording, online collaboration tools, etc.).

Grade: Grade 2
Course: Informational Text
NCES.2.IN.1 - Understand appropriate procedures when reading for enjoyment and information.
  NCES.2.IN.1.1 - Categorize books by their genre characteristics.
  NCES.2.IN.1.2 - Summarize appropriate reading strategies when reading for information.

Course: Research Process
NCES.2.RP.1 - Apply the research process by participating in whole-class research.
  NCES.2.RP.1.1 - Execute the steps of a simple research process (three to four steps).

Course: Safety and Ethical Issues
NCES.2.SE.1 - Understand issues related to the safe, ethical, and responsible use of information and technology resources.
  NCES.2.SE.1.1 - Use technology hardware and software responsibly.
  NCES.2.SE.1.2 - Explain why safe use of electronic resources is important.
  NCES.2.SE.1.3 - Use simple citation rules for print and electronic resources.

Course: Sources of Information
NCES.2.SI.1 - Categorize sources of information as appropriate or inappropriate.
  NCES.2.SI.1.1 - Classify sources of information as relevant for particular topics or purposes.
  NCES.2.SI.1.2 - Classify resources as current or not current.
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Course: Technology as a Tool
NCES.2.TT.1 - Use technology tools and skills to reinforce classroom concepts and activities.
  NCES.2.TT.1.1 - Use a variety of technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
  NCES.2.TT.1.2 - Use a variety of technology tools to organize data and information (e.g., word processor, graphic organizer, audio and visual recording, online collaboration tools, etc.).
  NCES.2.TT.1.3 - Use technology tools to present data and information (multimedia, audio and visual recording, online collaboration tools, etc.).

Grade: Grade 3
Course: Informational Text
NCES.3.IN.1 - Apply strategies that are appropriate when reading for enjoyment and for information.
  NCES.3.IN.1.1 - Use visual and literacy cues to locate relevant information in a given text (e.g., bold print, italics, bullets, etc).
  NCES.3.IN.1.2 - Compare the characteristics of genres to develop diverse reading habits.

Course: Research Process
NCES.3.RP.1 - Apply a research process as part of collaborative research.
  NCES.3.RP.1.1 - Implement a research process by collaborating effectively with other students.

Course: Safety and Ethical Issues
NCES.3.SE.1 - Understand issues related to the safe, ethical, and responsible use of information and technology resources.
  NCES.3.SE.1.1 - Understand the guidelines for responsible use of technology hardware.
  NCES.3.SE.1.2 - Understand ethical behavior (copyright, not plagiarizing, netiquette) when using resources.
  NCES.3.SE.1.3 - Understand internet safety precautions (personal information, passwords, etc.).

Course: Sources of Information
NCES.3.SI.1 - Categorize sources of information for specific purposes.
  NCES.3.SI.1.1 - Classify various types of resources as appropriate or inappropriate for purposes.
  NCES.3.SI.1.2 - Classify resources as reliable or not reliable.

Course: Technology as a Tool
NCES.3.TT.1 - Use technology tools and skills to reinforce classroom concepts and activities.
  NCES.3.TT.1.1 - Use a variety of technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
  NCES.3.TT.1.2 - Use a variety of technology tools to organize data and information (e.g., word processor, graphic organizer, audio and visual recording, online collaboration tools, etc.).
  NCES.3.TT.1.3 - Use technology tools to present data and information (multimedia, audio and visual recording, online collaboration tools, etc.).
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Information and Technology

Grade: Grade 4
Course: Informational Text
- NCES.4.IN.1 - Apply appropriate strategies when reading for enjoyment and for information.
  - NCES.4.IN.1.1 - Implement appropriate reading strategies when reading for information.
  - NCES.4.IN.1.2 - Explain the importance of relevant characteristics in various genres.

Course: Research Process
- NCES.4.RP.1 - Apply a research process as part of collaborative research.
  - NCES.4.RP.1.1 - Implement a research process by collaborating effectively with other students.

Course: Safety and Ethical Issues
- NCES.4.SE.1 - Understand issues related to the safe, ethical, and responsible use of information and technology resources.
  - NCES.4.SE.1.1 - Understand the guidelines for responsible use of technology hardware.
  - NCES.4.SE.1.2 - Understand ethical behavior (copyright, not plagiarizing, netiquette) when using resources.
  - NCES.4.SE.1.3 - Understand internet safety precautions (personal information, passwords, etc.).

Course: Sources of Information
- NCES.4.SI.1 - Apply criteria to determine appropriate information resources for specific topics and purposes.
  - NCES.4.SI.1.1 - Use various types of resources to gather information (including print and online media).
  - NCES.4.SI.1.2 - Use relevant sources of information for an assigned task.
  - NCES.4.SI.1.3 - Use reliable sources of information.

Course: Technology as a Tool
- NCES.4.TT.1 - Use technology tools and skills to reinforce classroom concepts and activities.
  - NCES.4.TT.1.1 - Use a variety of technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
  - NCES.4.TT.1.2 - Use a variety of technology tools to organize data and information (e.g., word processor, graphic organizer, audio and visual recording, online collaboration tools, etc.).
  - NCES.4.TT.1.3 - Use technology tools to present data and information (multimedia, audio and visual recording, online collaboration tools, etc.).

Grade: Grade 5
Course: Informational Text
- NCES.5.IN.1 - Analyze appropriate strategies when reading for enjoyment and for information.
  - NCES.5.IN.1.1 - Differentiate strategies when reading informational text in a variety of formats (e.g., print, online, audio, etc.) to complete assigned tasks.
  - NCES.5.IN.1.2 - Differentiate strategies when reading various genres.

Course: Research Process
- NCES.5.RP.1 - Apply a research process as part of collaborative research.
  - NCES.5.RP.1.1 - Implement a research process by collaborating effectively with other students.
Course: Safety and Ethical Issues
NCES.5.SE.1 - Understand issues related to the safe, ethical, and responsible use of information and technology resources.
   NCES.5.SE.1.1 - Understand the guidelines for responsible use of technology hardware.
   NCES.5.SE.1.2 - Understand ethical behavior (e.g., copyright, not plagiarizing, netiquette) when using resources.
   NCES.5.SE.1.3 - Understand internet safety precautions (e.g., personal information, passwords, etc.).

Course: Sources of Information
NCES.5.SI.1 - Apply criteria to determine appropriate information resources for specific topics and purposes.
   NCES.5.SI.1.1 - Use various types of resources to gather information (including print and online media).
   NCES.5.SI.1.2 - Use relevant sources of information for an assigned task.
   NCES.5.SI.1.3 - Use reliable sources of information.

Course: Technology as a Tool
NCES.5.TT.1 - Use technology tools and skills to reinforce and extend classroom concepts and activities.
   NCES.5.TT.1.1 - Use a variety of technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
   NCES.5.TT.1.2 - Use a variety of technology tools to organize data and information (e.g., word processor, graphic organizer, audio and visual recording, online collaboration tools, etc.).
   NCES.5.TT.1.3 - Use technology tools to present data and information (e.g., multimedia, audio and visual recording, online collaboration tools, etc.).

Grade: Grade 6
Course: Research Process
NCES.6.RP.1 - Apply a research process for collaborative or individual research.
   NCES.6.RP.1.1 - Implement a research process collaboratively.
   NCES.6.RP.1.2 - Implement a research process independently.

Course: Safety and Ethical Issues
NCES.6.SE.1 - Apply responsible behaviors when using information and technology resources.
   NCES.6.SE.1.1 - Apply ethical behavior (copyright, not plagiarizing, proper netiquette) when using resources.
   NCES.6.SE.1.2 - Apply the safety precautions necessary when using online resources (personal information, passwords, etc.).

Course: Sources of Information
NCES.6.SI.1 - Analyze resources to determine their reliability, point of view, bias, and relevance for particular topics and purposes.
   NCES.6.SI.1.1 - Analyze resources in terms of their reliability (which can be determined by currency, credibility, or authority, depending on the topic or purpose).
   NCES.6.SI.1.2 - Analyze content for relevance to the assigned task.
   NCES.6.SI.1.3 - Analyze resources for point of view, bias, values, or intent of information.
Course: Technology as a Tool
NCES.6.TT.1 - Use technology and other resources for the purpose of accessing, organizing, and sharing information.
   - NCES.6.TT.1.1 - Select appropriate technology tools to gather data and information (e.g., Web-based resources, e-books, online communication tools, etc.).
   - NCES.6.TT.1.2 - Select appropriate technology tools to organize data and information (e.g., word processor, database, spreadsheet, graphic organizer, audio and visual recording, online collaboration tools, etc.).
   - NCES.6.TT.1.3 - Select appropriate technology tools to present data and information effectively (multimedia, audio and visual recording, online collaboration tools, etc.).

Grade: Grade 7

Course: Research Process
NCES.7.RP.1 - Apply a research process to complete given tasks.
   - NCES.7.RP.1.1 - Implement a collaborative research process activity that is group selected.
   - NCES.7.RP.1.2 - Implement an independent research process activity that is student selected.

Course: Safety and Ethical Issues
NCES.7.SE.1 - Apply responsible behaviors when using information and technology resources.
   - NCES.7.SE.1.1 - Apply ethical behavior (copyright, not plagiarizing, proper netiquette) when using resources.
   - NCES.7.SE.1.2 - Apply the safety precautions necessary when using online resources (personal information, passwords, etc.).

Course: Sources of Information
NCES.7.SI.1 - Evaluate information resources based on specified criteria.
   - NCES.7.SI.1.1 - Evaluate resources for reliability. (Reliability can be determined by currency, credibility, authority, etc. depending on the curriculum topic).
   - NCES.7.SI.1.2 - Evaluate content for relevance to the assigned task.
   - NCES.7.SI.1.3 - Evaluate resources for point of view, bias, values, or intent of information.

Grade: Grade 8

Course: Technology as a Tool
NCES.7.TT.1 - Use technology and other resources for assigned tasks.
   - NCES.7.TT.1.1 - Use appropriate technology tools and other resources to access information.
   - NCES.7.TT.1.2 - Use appropriate technology tools and other resources to organize information (e.g. graphic organizers, databases, spreadsheets, and desktop publishing).
   - NCES.7.TT.1.3 - Use appropriate technology tools and other resources to design products to share information with others (e.g. multimedia presentations, Web 2.0 tools, graphics, podcasts, and audio files).
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NCES.8.RP.1.2 - Implement a project-based activity independently.

Course: Safety and Ethical Issues
NCES.8.SE.1 - Analyze responsible behaviors when using information and technology resources.
  NCES.8.SE.1.1 - Analyze ethical behavior (copyright, not plagiarizing, netiquette) when using resources.
  NCES.8.SE.1.2 - Analyze safety precautions when using online resources (personal information, passwords, etc.).

Course: Sources of Information
NCES.8.SI.1 - Evaluate information resources based on specified criteria.
  NCES.8.SI.1.1 - Evaluate resources for reliability. (Reliability can be determined by currency, credibility, authority, etc. depending on the curriculum topic).
  NCES.8.SI.1.2 - Evaluate content for relevance to the assigned task.
  NCES.8.SI.1.3 - Evaluate resources for point of view, bias, values, or intent of information.

Course: Technology as a Tool
NCES.8.TT.1 - Use technology and other resources for assigned tasks.
  NCES.8.TT.1.1 - Use appropriate technology tools and other resources to access information (search engines, electronic databases, digital magazine articles).
  NCES.8.TT.1.2 - Use appropriate technology tools and other resources to organize information (e.g. graphic organizers, databases, spreadsheets, and desktop publishing).
  NCES.8.TT.1.3 - Use appropriate technology tools and other resources to design products to share information with others (e.g. multimedia presentations, Web 2.0 tools, graphics, podcasts, and audio files).

Grade: High School

Course: Research Process
NCES.HS.RP.1 - Design project-based products that address global problems.
  NCES.HS.RP.1.1 - Design global-awareness project-based products individually and collaboratively.

Course: Safety and Ethical Issues
NCES.HS.SE.1 - Analyze issues and practices of responsible behavior when using resources.
  NCES.HS.SE.1.1 - Analyze ethical issues and practices related to copyright, not plagiarizing, and netiquette.
  NCES.HS.SE.1.2 - Analyze safety issues and practices when using online resources (legal and criminal consequences, long-term career consequences of behavior).

Course: Sources of Information
NCES.HS.SI.1 - Evaluate resources needed to solve a given problem.
  NCES.HS.SI.1.1 - Evaluate resources for reliability. (Reliability can be determined by currency, credibility, authority, etc. depending on the curriculum topic).
  NCES.HS.SI.1.2 - Evaluate resources for point of view, bias, values, or intent of information.
  NCES.HS.SI.1.3 - Evaluate content for relevance to the assigned task.
Course: **Technology as a Tool**

NCES.HS.TT.1 - Use technology and other resources for assigned tasks.

NCES.HS.TT.1.1 - Use appropriate technology tools and other resources to access information (multi-database search engines, online primary resources, virtual interviews with content experts).

NCES.HS.TT.1.2 - Use appropriate technology tools and other resources to organize information (e.g. online note-taking tools, collaborative wikis).

NCES.HS.TT.1.3 - Use appropriate technology tools and other resources to design products to share information with others (e.g. multimedia presentations, Web 2.0 tools, graphics, podcasts, and audio files).