

# 8th Grade

**Networks & Internet:**  
Networks link computers and devices locally and around the world allowing people to access and communicate information. **8.NI**

- 1 Investigate how data is sent from one computer to another across networks. 8.NI.1**

**Hardware & Software:**  
Devices, hardware, and software work together as a system to accomplish tasks. **8.HS**

- 1 Choose appropriate device/hardware/software to complete a task. 8.HS.1**
- 2 Continued growth. 8.HS.2**
- 3 Organize, store, and retrieve digital information efficiently. 8.HS.3**
- 4 Describe ways to protect against threats to technology systems. (CYSEC) 8.HS.4**
- 5 Compare and contrast security measures used to protect technology systems. (CYSEC) 8.HS.5**

**Troubleshooting:**  
Strategies for solving technology system problems. **8.T**

- 1 Continued growth. 8.T.1**

**Problem Solving & Algorithms:** Strategies for understanding and solving problems. **8.PSA**

- 1 Create and test an algorithm to solve a problem across disciplines. 8.PSA.1**
- 2 Continued growth. 8.PSA.2**

**Data Creation & Analysis:** Data can be collected, used, and presented with computing devices or digital tools. **8.DCA**

- 1 Represent data from multiple sources in order to defend or refute a claim. 8.DCA.1**

**Development & Design:**  
Design processes to create new, useful, and

- 1 Create programs that utilize combinations of loops, conditionals, and the manipulation of variables representing different data types. 8.DD.1**

**imaginative solutions to solve problems.** 8.DD

---

**Access: Effective search strategies can locate information for intellectual or creative pursuits.** 8.A

**1 Use advanced search strategies to locate information online.** 8.A.1

---

**Information sources can be evaluated for accuracy, currency, appropriateness, and purpose.** 8.E

**1 Continued growth.** 8.E.1

---

**Create: It is important to both consume and produce information to be digitally literate.** 8.C

**1 Continued growth.** 8.C.1

---

**Intellectual Property: Respect for the rights and obligations of using and sharing intellectual property.** 8.IP

**1 Properly use copyrighted works, works in the creative commons, and works in the public domain.** 8.IP.1

**2 Continued growth.** 8.IP.2

**3 Debate the risks and benefits of sharing personal works online (CYSEC)** 8.IP.3

---

**Impacts of Computing: Past, present, and possible future impact of technology on society.** 8.IC

**1 Explore and create solutions for the negative impacts of technology, including bias and accessibility.** 8.IC.1

---

**Social Interactions: Technology facilitates collaboration with others.** 8.SI

**1 Use collaborative technology to communicate information to a specific audience.** 8.SI.1

**2 Continued growth.** 8.SI.2

---

**Safety & Ethics: There are both positive and negative impacts in social and ethical behaviors for using technology.** 8.SE

**1 Continued growth.** 8.SE.1

**2 Identify advanced methods to maintain digital privacy and security. (CYSEC)** 8.SE.2

**3 Continued growth.** 8.SE.3

**4 Discuss the consequences of identity theft. (CYSEC)** 8.SE.4

---

**Responsible Use: Respect and dignity in virtual and physical communities.** 8.RU

**1 Continued growth.** 8.RU.1

---

**2 Identify strategies to prevent and stop cyberbullying.** 8.RU.2

---

**3 Continued growth.** 8.RU.3

---

**4 Understand the purpose of and comply with Acceptable Use Policies.** 8.RU.4

---

**Digital Identity: The responsibilities and opportunities that come with living, learning, and working in an interconnected digital world.** 8.DI

**1 Continued growth.** 8.DI.1