



Cyber Security Initiative for Nevada Teachers

3rd Grade Communications & Networking Curriculum Integration

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Why it Matters

• Privacy, secrecy and security are the reasons for cybersecurity and what make it relevant to those learning about it.

• A bottom-up approach to cybersecurity is the only way to prepare today's youth for a cyber-reality that is already dealing out consequences and changing the information technology environment as fast as a graduating class can adapt.

• A sensible beginning for cybersecurity curriculum at any grade level is the exploration and reinforcement of privacy, secrecy and security concepts with their introduction as early as kindergarten.
• The concepts of privacy, secrecy and security in the context of cybersecurity are easily integrated into core subjects.

ENGINEERING DESIGN

Lesson 1
Privacy,
Secrecy &
Security

Lesson 2
Applications,
Communication
& Networks

**Unplugged
Programming**
With
Sr. Robot

Sr. Robot follows students throughout the lessons to teach engineering design concepts. Role-play games help kids grasp problems and learn programming.

SOCIAL STUDIES

MATH

Communications & Networking

Lesson 3
Cryptography
& Privacy

- LESSON OVERVIEWS**
Students...
1. Relate concepts of privacy, secrecy and security to their own lives and cybersecurity.
 2. Understand the nature of communication and networks.
 3. Experience the process of encoding and decoding to achieve privacy.
 4. Learn about passwords and their importance.
 5. Understand the process of authentication and its purpose.

SCIENCE

LANGUAGE ARTS

Lesson 5
Authentication &
Security

Lesson 4
Passwords &
Secrecy

**Discovery
&
Application**

