Culture of Cybersecurity

CYBERSECURITY FOR EVERYONE

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Culture of Cybersecurity | CyBear Activities for Kids
Kids Activities

Stay Cyber Aware. Stay Cyber Safe with Kids Activities!

Internet safety is more important than ever before. Why? By 2020, it is estimated that **20.4 billion devices** will be connected online. That includes tablets, desktop and laptop computers, smart watches, smart phones, and much more! But, don't fret! The CyBear family has free, downloadable kids activities to help your family learn basic cybersecurity concepts and defense strategies.

After all, just as the Internet continues to grow and change, so does our ability - whether young or old - to grow with this changing landscape and keep up with all of the devices. That's why the CIAS created the CyBear family to help engage and excite young learners about basic cybersecurity concepts and online safety tips.

Below you will find **coloring and activity sheets**, as well as **games you can download** to your computer. They will teach children more than just cybersecurity definitions, but also how to create secret messages and how to defend against cyber attacks!

Have fun, and make sure to come back regularly as we add more activities.

STEM Activity Sheets

My name is _____

Hello! We're Ada and Vint CyBear!

Can you identify our wireless devices? (Hint: There are three listed!)

You and your student may move through the following STEM activity pages (to the right) in any order and pace that you wish. An answer key is provided on the

Download by Grade Level

[Kindergarten >>](#)

[First Grade >>](#)

[Second Grade >>](#)

[Third Grade >>](#)

Fourth Grade to Fifth Grade >>

as new activities are being added regularly!

Educational Computer Games

The following electronic games are easily accessed from one location (for free!) when you download the "CIAS Launcher" to your computer. Designed to be fun first, and educational second, your student will learn concepts from online safety and best practices to decoding messages and how to defend a network from cyber threats. It's through repetitious play that your student will learn these computer and cyber security concepts. Below is a snapshot of the games currently available.

Downloading the CIAS Launcher

When you open the "CIAS Launcher" (link below), you will be asked to extract/run the files. Once this process is completed, save the file to your desktop and select the game icons of your choosing. You will need to select "Install" for each game, and then you're ready to play!

☁ Download CIAS Launcher Here

Security Showdown

Grade Level: Kindergarten - 2nd Grade

Learn the basics of sharing personal information with family, friends, and strangers in this simple point-and-click game. Featuring charming voxel graphics, simple game mechanics, and voice overs in both English and Spanish, this game is highly accessible and great for young players.
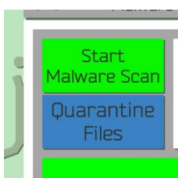
Project Cipher

Grade Level: 3rd - 6th

Project Cipher introduces students to the concept of cryptography by showing them techniques for encoding and decoding ciphers to hide or discover information.

This cyber education game enables the player to move through a progressive storyboard interface that guides the student while solving coded messages with point-and-click puzzles.
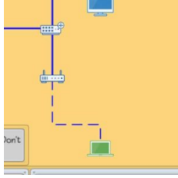
JeffOS

Grade Level: 3rd - 6th

Join Jeff as he guides students through his operating system and covers everything from basic computer skills to dealing with complex issues like phishing and malware. Players will walk away from JeffOS with a more developed set of computer skills and a grasp on the importance of cybersecurity in their everyday lives.
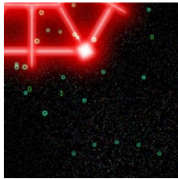
Grade Level: 3rd - 6th

Build a computer network to mine for cryptocurrency and use this money to expand and secure a network! Watch how decisions affect the security and effectiveness of a network in this educational simulation. Students will learn about some basic networking components, malware, security software, and discover some of the ways that they can protect a network from cyber threats.

CleanUp.exe

Grade Level: 4th - 6th

Students take the helm of an anti-malware program protecting a system from threats like viruses, worms, and Trojan horses. Students must weave out of danger and remove as many threats as possible, while also collecting emails from trusted senders and correctly answering security questions to gain bonus points.

Dangerbots

Grade Level: 4th - 6th

Megabyte City is under attack! Students will learn about security tools and strong passwords to stop Dr. Malbot, a type of malware, from taking over Megabyte City. Students will need to defeating Dr. Malbot's three Mega Bosses: Virus Bot has unleashed crippling viruses to bring the main frame down; Crypto Bot, who has broken through passwords protecting the power station; and PopUp Bot, who has overrun communications.

Cyber Threat Defender

Grade Level: 6th and up

Cyber Threat Defender (CTD) is available to play as both a card game or electronic version that can be downloaded to your computer.

Download to Your PC

Download to a Mac

CTD is designed to teach essential cybersecurity terminology and defense strategies. It's easy-to-play. Players must protect themselves from cyber attacks while building and defending robust networks in order to become a true Cyber Threat Defender! To order the tabletop card game, visit CIASMarketplace.com.

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