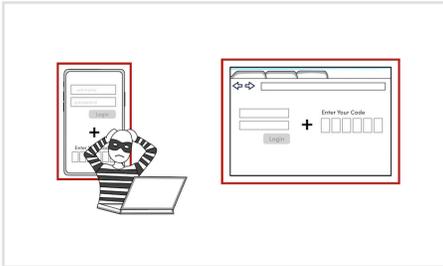


## Lesson Plan

This lesson plan is designed to help you teach using a Common Craft video. Use the information below to introduce the video and then follow the video with discussion questions and other resources.



[commoncraft.com/video/two-factor-authentication](https://commoncraft.com/video/two-factor-authentication)

**ISTE Standard:**  
**Digital Citizen 2d**

**ACRL Info Literacy Frame:**  
**Information has Value**

# Two Factor Authentication

Explained by Common Craft

For too long, passwords were the only thing standing between criminals and valuable information you keep online. Now, websites and apps are adding a second layer of security called Two Factor Authentication. This video explains why it matters, and how it works.

## Learning Outcomes

- Define the term two factor authentication
- Explain the value of two factor authentication
- Describe how to log in to a website using the two factor authentication process

## Discussion Questions

### Q #1

Have you had to sign in to a website that requires two factor authentication? Describe the experience.

### Q #3

What are the advantages and disadvantages of using two factor authentication? Explain.

### Q #4

The first piece of a two factor authentication is a password that you create. What strategies do you use to make your password more difficult for others to guess? What ideas can you add to factors for authentication besides something you know and something you have?

## Knowledge Check Q&A

**Q**

What is two factor authentication?

**A**

It is a type of security that requires more than one type of information for accessing a website or app.

**Q**

Multiple Choice. In two factor authentication, if the first factor is a code you know by heart, which of the following could be the second factor? A) a code that is sent to your phone via text B) a code you can access through an app on your phone C) a code you know by heart D) both A and B

**A. D**

**Q**

True or False. In two factor authentication, one of the factors may expire quickly.

**A**

True.

## Resources for Learning More

### National Institute of Standards and Technology

Back to basics: Multi-factor authentication, November 22, 2016

<https://www.nist.gov/itl/tig/back-basics-multi-factor-authentication>

### Wired.com

Brian Barrett, How to secure your accounts with better two-factor authentication, July 22, 2018

<https://www.wired.com/story/two-factor-authentication-apps-authy-google-authenticator/>

### Twofactorauth.org

Josh Davis. Two factor auth: List of websites and whether or not they support 2FA

<https://twofactorauth.org/>

### New York Times

Josephine Wolff, Opinion: Two-factor authentication might not keep you safe, January 27, 2019

<https://www.nytimes.com/2019/01/27/opinion/2fa-cyberattacks-security.html>

### PC Magazine

Eric Griffith, Two Factor Authentication: Who has it and how to set it up, March 11, 2019

<https://www.pcmag.com/feature/358289/two-factor-authentication-who-has-it-and-how-to-set-it-up>