

# “Man in the Middle” Attacks

TOPIC: NETWORKING, HARDWARE AND SOFTWARE

GRADES: 6-8, 9-12

LESSON DURATION: 45 MINUTES

SOFT SKILLS: COMMUNICATION

---

## Introduction:

- As students spend more time on devices, unfortunately they need to become more aware of online threats. This lesson is designed to give students a basic knowledge of the types of threats that exist while also teaching ways to avoid being a victim. The focus is on “Man in the Middle” attacks. This lesson could follow the lesson on public Wi-Fi. It is important that teachers reinforce the idea of ethics. Although some users see the internet as a big game, waiting to be conquered-there can be major ramifications to harmful actions.

---

## Learning Outcomes:

- Students will identify threats and explain the difference between attacks and exploits.
- Students will recognize the dangers of MITM and similar exploits and understand ways to avoid being a victim.

---

## Teacher Reading:

- <http://cyber.harvard.edu/ecommerce/encrypt.html>
- [Presentation for discussion](#)

---

## Activities:

1. This lesson focuses first on some basic networking information and then moves into a discussion of Man in the Middle Attacks (MITM).
2. The teacher can introduce the lesson as a lesson pertaining to cybersecurity and networking principles.
3. The teacher can use [this presentation](#) to discuss the issues with students. Visuals and non-technical information is included as much as possible.
4. As always, a good discussion on ethical behaviors should be included during this discussion. It is important to continually reinforce that these sorts of attacks are discussed for awareness purposes and that being involved in such attacks is illegal.

© 2018 Teach Cyber



This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-nc-sa/4.0/).