

SCORE



SUGGESTED TIME
30-45 MINUTES

OBJECTIVES

By completing this activity, students will:

- + be able to describe what a variable is and why variables are useful
- + be introduced to the computational concept of data
- + experience remixing and reusing a project or part of a project

ACTIVITY DESCRIPTION

- ☐ Optionally, explore the Fish Chomp starter project as a group and have the Score handout available to guide students.
- ☐ Help students open the Fish Chomp starter project. Give students time to explore variables by remixing the Fish Chomp Starter Project to add score to the game. Optionally, give students time to incorporate score into their previously started maze, pong, or scrolling game projects.
- ☐ Allow students to share their Fish Chomp remixes or game projects with added score. We suggest the Design Demo activity: invite a few students to present their projects to the group and demonstrate how they implemented score using variables. Optionally, have students add their remixes to the Fish Chomp Remix studio or a class studio.
- ☐ Ask students to think back on the design process by responding to the reflection prompts in their design journals or in a group discussion.

RESOURCES

- ☐ Score handout
- ☐ Score examples studio
<http://scratch.mit.edu/studios/218313>
- ☐ Fish Chomp starter project
<http://scratch.mit.edu/projects/10859244>
- ☐ Fish Chomp remix studio
<http://scratch.mit.edu/studios/475615>

REFLECTION PROMPTS

- + How would you explain variables to someone else?
- + What are variables good for?

REVIEWING STUDENT WORK

- + Can students explain what a variable is and what variables are good for?

NOTES

- + Encourage students to clarify their understanding of variables by exploring code from sample projects in the Score examples studio.
- + Variables are an important mathematical and computational concept. Students are taught about variables in their math and science classes, but many students have a difficult time learning them. Games are one way to make the usefulness of variables more concrete.

NOTES TO SELF

