



Teacher Guide: Code Monsters

<https://www.tynker.com/hour-of-code/codemonsters>

Time: 30 minutes

Grades: 3+

Difficulty: Intermediate

Students complete a set of 21 coding puzzles that introduce them to all the basic coding concepts they need to program their monsters.

Activity Requirements: This activity requires computers with a Web browser and an Internet connection. Headphones recommended.

Programming Activities



Solve 20 Coding Puzzles (30 minutes)

Students solve a set of 21 coding puzzles to learn how to program the monsters that they collect. The first puzzles are very simple and introduce basic concepts. As students progress through the set, they collect new monsters that they can program and the puzzles become more challenging. They learn and apply computational thinking concepts like sequencing and automation. At the end of this activity, students understand basic programming concepts like conditional logic and sequencing.



Hour of Code Certificate

Be sure to download a personalized certificate for your students when they complete this activity.

Standards Mapping

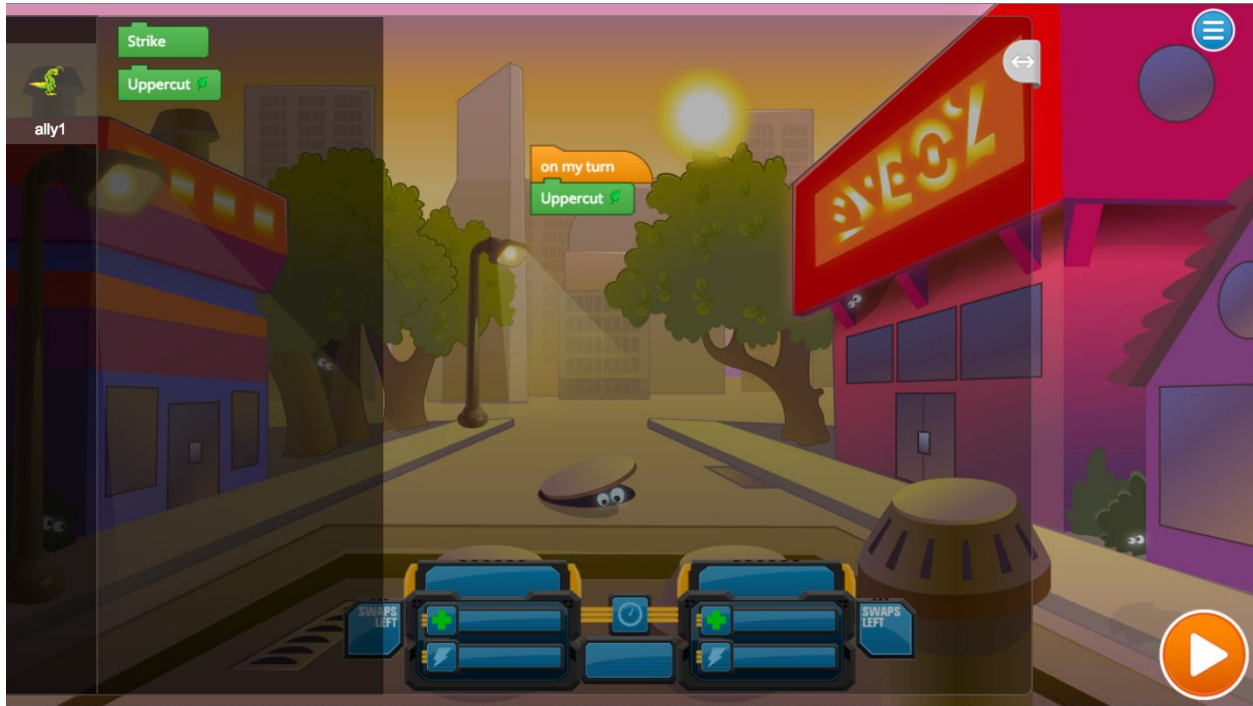
CCSS ELA: RI.3.3, W.3.6, RI.4.5, RI.4.3, RI.5.10, RST.6-8.4, RST.6-8.7, RST.9-10.5, RST.11-12.3

CCSS Math: MP.3.2, MP.3.8, MD.4.5, NF.4.7

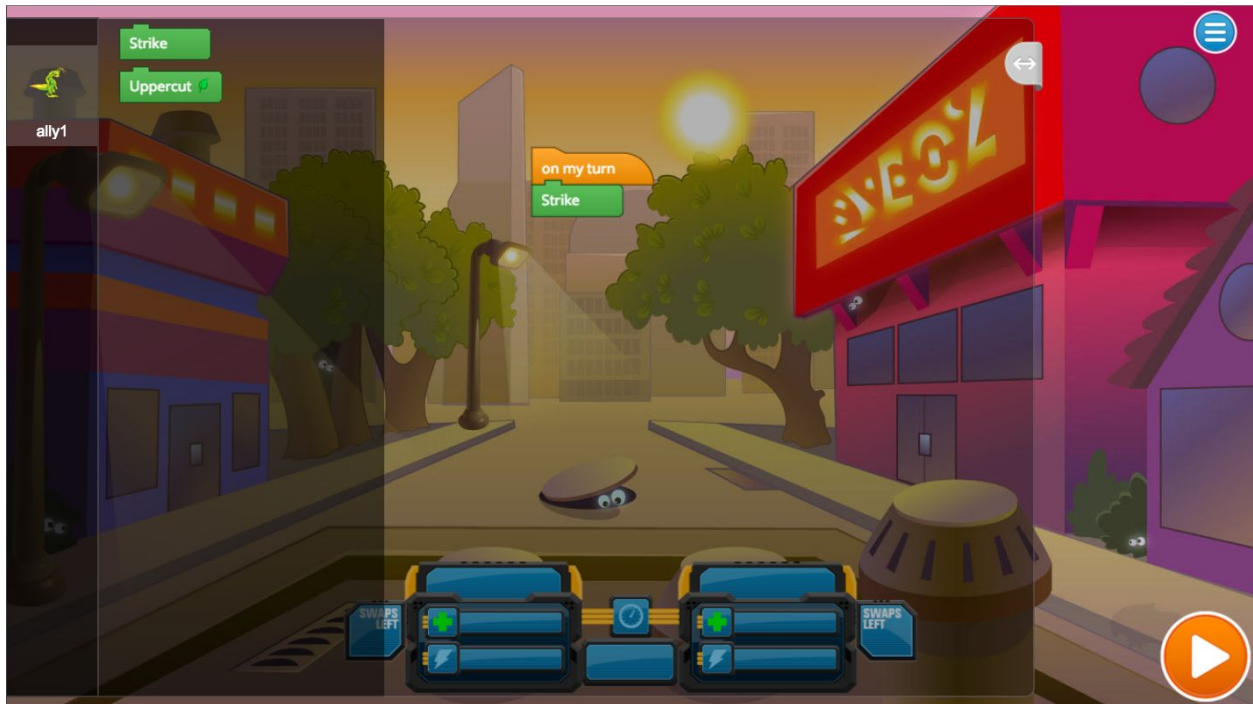
CSTA: L1:6.CT.1, L1:6.CPP.5, L1:6.CPP.6, L2:9.CT.1, L2:9.CT.3, L2:9.CT.5, L2:9.CT.12, L2:9.CPP.3, L2:9.CPP.5

Puzzle Solutions

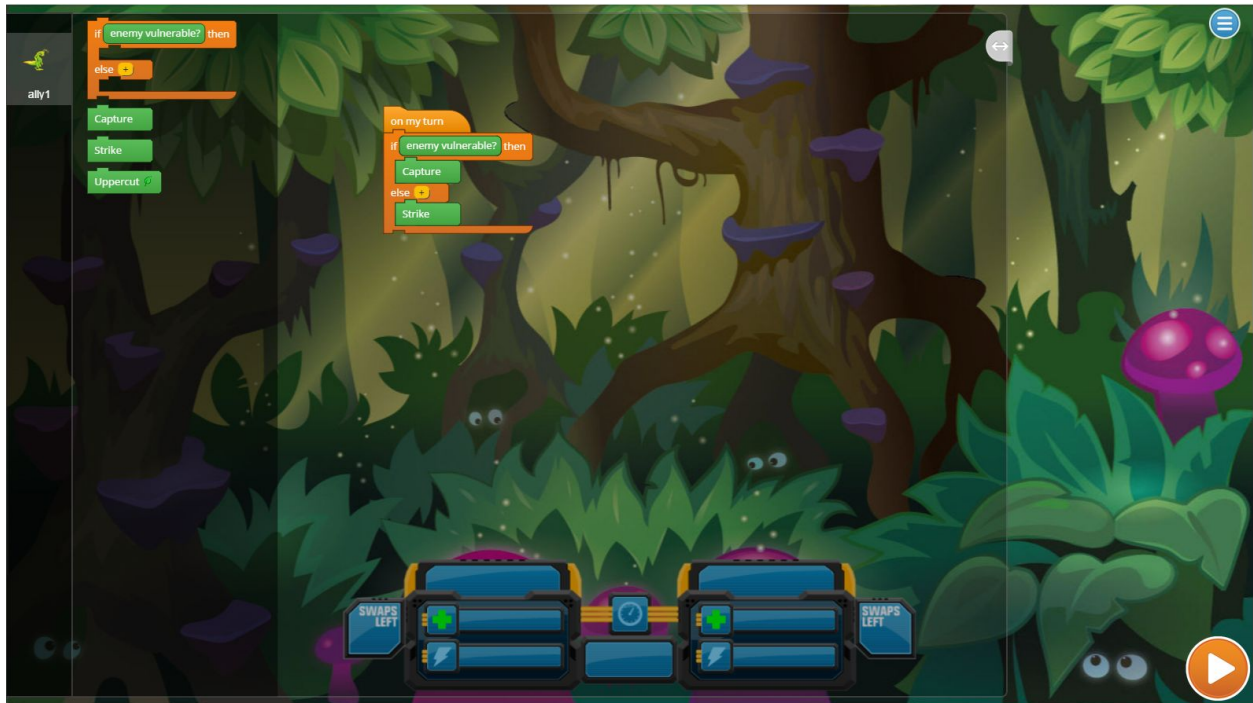
Puzzle 2



Puzzle 3



Puzzle 5



Puzzle 6



Puzzle 6



Puzzle 7



Puzzle 8



Puzzle 9



Puzzle 10



Puzzle 10 Cont.



Puzzle 11



Puzzle 12



Puzzle 13



Puzzle 13 Cont.



Puzzle 14



Puzzle 14 Cont.



Puzzle 15



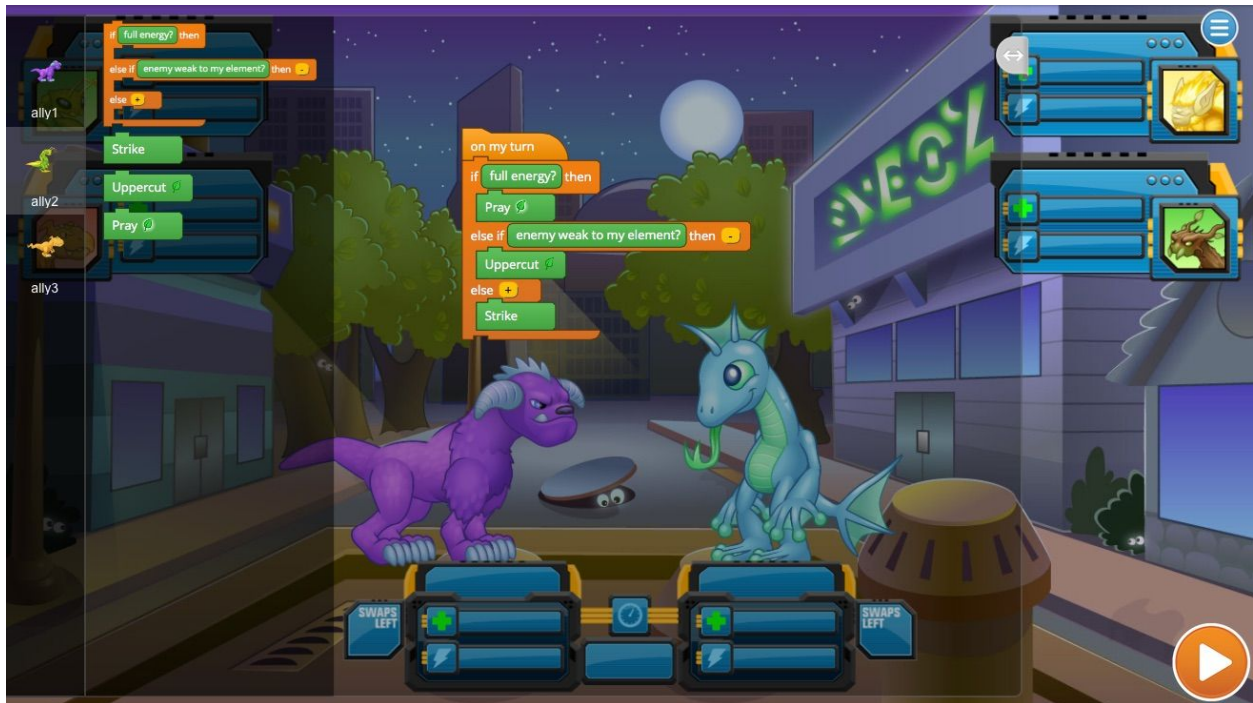
Puzzle 16



Puzzle 17



Puzzle 17 Cont.



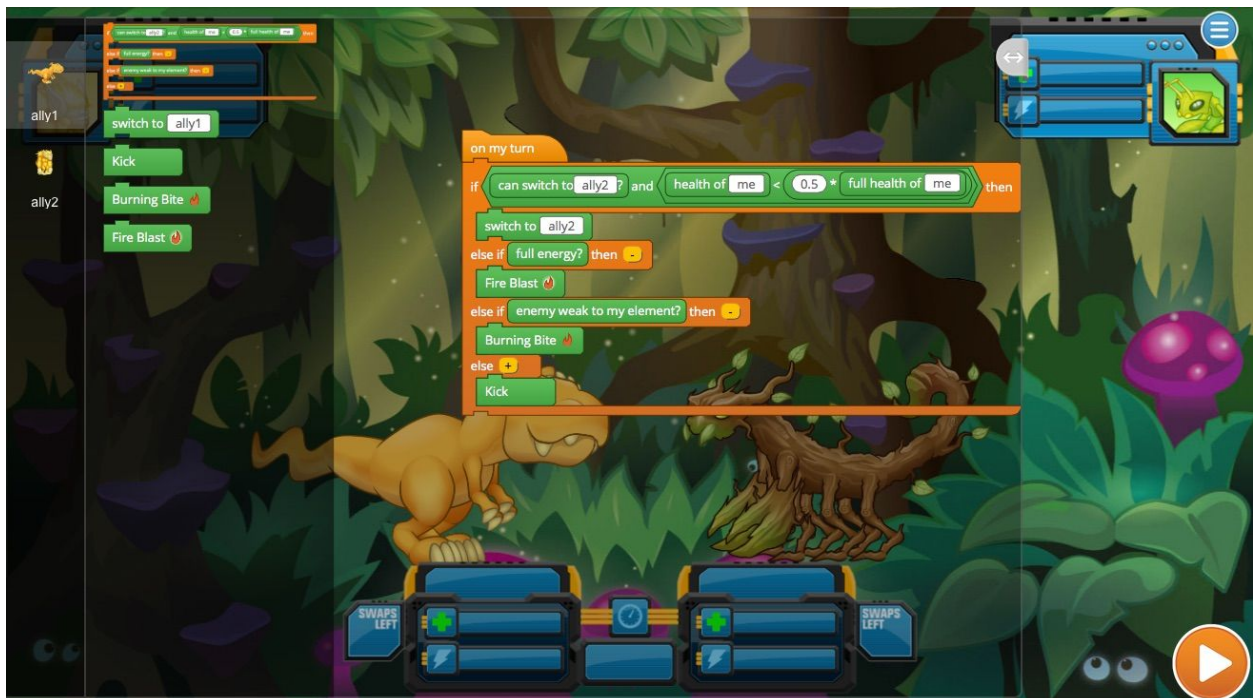
Puzzle 18



Puzzle 19



Puzzle 20



Puzzle 20 Cont.



Puzzle 21



Puzzle 21 Cont.





Teacher Guide to Tynker Hour of Code

Tynker's activities combine structured and open-ended components to support multiple learning styles. This experience emphasizes that programming requires not only knowledge of how to use a language, but also creativity and critical thinking to figure out how to build projects. Tynker is offering a wide variety of activities appropriate for all grades and experience levels.

What Tynker Provides

- Self-contained, game-based activities that students can complete with minimal support
- A combination of structured and open-ended activities that teach and allow students to create
- Puzzle solutions for all of our puzzles so you can give hints to any students who get stuck
- Common Core alignment for all activities
- A customized Hour of Code certificate for each activity that will show up in the student dashboard when a student completes an hour of programming

Why Children Love Tynker

- Tynker puzzles use game-based learning to teach programming and computational thinking concepts in a fun way
- Tynker tutorials guide students through all the steps to create storytelling projects, games, animations, and much more
- The Tynker Workshop allows students to create anything they can imagine with code
- Tynker's built-in Physics Engine makes it easy to create exciting projects
- Tynker's high quality media assets give students tons of creative options

Recommended Setup and Logistics

- Ideal environment: a computer lab, library, or classroom with your class
- Students can work individually or in pairs
- Students should have headphones if possible, but if not, you can turn the computer volume down
- Set up a free teacher account on tynker.com prior to the activity and add your students so you can track their progress and share a class showcase—and so students can continue working at home! (Note: Creating a teacher account is optional. You can complete your Hour of Code with Tynker without creating an account.)

We hope you take a look at all of our Hour of Code activities to figure out which one is right for your class. Join the global movement and host your Hour of Code with Tynker!