



Teacher Guide: Learn to Code with Monster High

https://www.tynker.com/hour-of-code/monsterhigh

Time: 60 minutes Grades: 3+ Difficulty: Beginner

Students complete a set of 20 coding puzzles that introduce them to all the basic coding concepts they need to start building their own projects. Then they create and publish a music video where they use code blocks to choreograph the dancers.

Activity Requirements: This activity requires computers with a Web browser and an Internet connection. Headphones recommended. Scavenger Hunt is also available in the Tynker app on iPads and Android tablets. You can download the app from the <u>App Store</u> or <u>Google Play Store</u>.

Programming Activities



Scavenger Hunt (40 Minutes): Solve 20 Coding Puzzles

Students solve a set of 20 coding puzzles to guide Monster High characters through a scavenger hunt. The first puzzles are very simple and introduce basic concepts. As students progress through the set, the puzzles become more complex. They learn and apply computational thinking concepts like sequencing, pattern recognition, and automation. At the end of this activity, students understand basic programming concepts like conditional logic, loops, and sequencing.



Dance Party (20 Minutes): Program a Music Video

Students follow step-by-step instructions to create and publish their own music video. They use code blocks to choose a setting, add music, choreograph the ghouls, and animate other Halloween-themed items in the scene. Each student will produce a unique project. When they're done with their music video, they can publish it and it might be featured in the Monster High Showcase.



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 1





















































































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!