# Coding Activity Template

Take part in building activities for a range of learners, from beginners to experienced coders. From self-directed/self-guided to facilitated, activities should introduce or teach coding principle(s) and help develop skills. We encourage activities that relate to different subjects. Activities can teach about other connections to real world spaces and events in history.

Examples:

* [Planet discovery (astronomy)](https://weavly.org/learn/activities/planet-discovery/)
* [Dancing to the beat (music and physical activity)](https://weavly.org/learn/activities/dancing-to-the-beat/)

### What to submit?

We encourage teachers, parents, and educators to share guides/tips, and to build an activity that helps learners pick up coding principles, as well as develop their skills. You may refer to [Computer Science Teachers’ Association’s K-12 Standards](https://k12cs.org/framework-statements-by-grade-band/) for an idea of computer science concepts and principles being taught with coding.

This form provides a template to submit and share your coding activity.

## Activity Overview

### Name of Activity

What is the name of the activity?

### Type of Activity

Would the activity have physical or virtual interactions? Please indicate if the use of a computer or digital device is not required (unplugged) or required (on-screen), involves robots (activity with robots), or combines virtual and physical interactions that may include robots (hybrid).

* + Unplugged
  + On-Screen
  + Hybrid
  + Activities with Robots

### Level of Coding Experience

Please indicate the level of coding experience needed to try this activity.

* + No coding experience
  + Unplugged coding experience
  + Blockly coding experience

### Subject

Consider your audience for this activity. What concepts might your coding activity entail?

* + Introduction
  + Sequencing
  + Sorting & Pattern
  + Direction Based
  + Goal Based
  + Debugging
  + Conditions

## What you need

Consider the tools your participants may need to prepare for this activity and complete it.

### Tools

* + None
  + Device with internet access to open Weavly coding environment
  + Device to play music
  + Masking tape / Sidewalk chalk
  + Printer and paper
  + Other (provide description)

## Skill Development

Highlight some skills that this activity will provide learners with a chance to develop.

* Communication
* Creativity
* Dancing
* Debugging
* Directional
* Gross motor movements
* Observational
* Pattern Recognition
* Planning
* Sequencing
* Social skills (i.e. turn-taking)
* Sorting
* Spatial
* Other (provide description)

### Environment

Please indicate a suitable environment for the activity.

* + Any
  + Indoor
  + Large indoor or outdoor area
  + Any environment with space for dance movement and tolerance for music
  + Weavly coding environment
  + Other (provide description)

### Level of Support

What is the level of support and/or assistance required?

* + Adult moderator and one or more players
  + Depends on the learner, could be independent or require assistance

## Activity Details

### Skill Development

Write a short description of your activity that includes:

* the objective of the activity;
* context or inspiration for the activity;
* related coding skills; and
* any required links (e.g. videos, documents).

Please keep your description under 100 words.

### Activity Steps

Provide 3-5 simple step-to-step guides on how to complete the activity along with the tools and resources.

1. [step one]
2. [step two]
3. [step three]
4. [step four]
5. [step five]

### Tips

Provide 1-3 tips that may be helpful for someone trying this activity for the first time.

1. [tip 1]
2. [tip 2]

### Level up

Provide 1-3 ideas on challenges to help learners take the activity to the next level.

1. [Once players are familiar with this activity, try: idea one]
2. [For more of a challenge: idea two]

### Book Suggestions

If you have a book that covers similar skills and/or concepts related to this activity, please share them here. Please include the following information for your recommended book:

* Title
* Author
* URL/Links to access it in the libraries or purchase it online