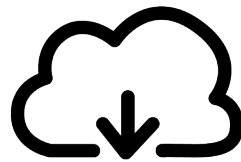# iRobot™

## Education

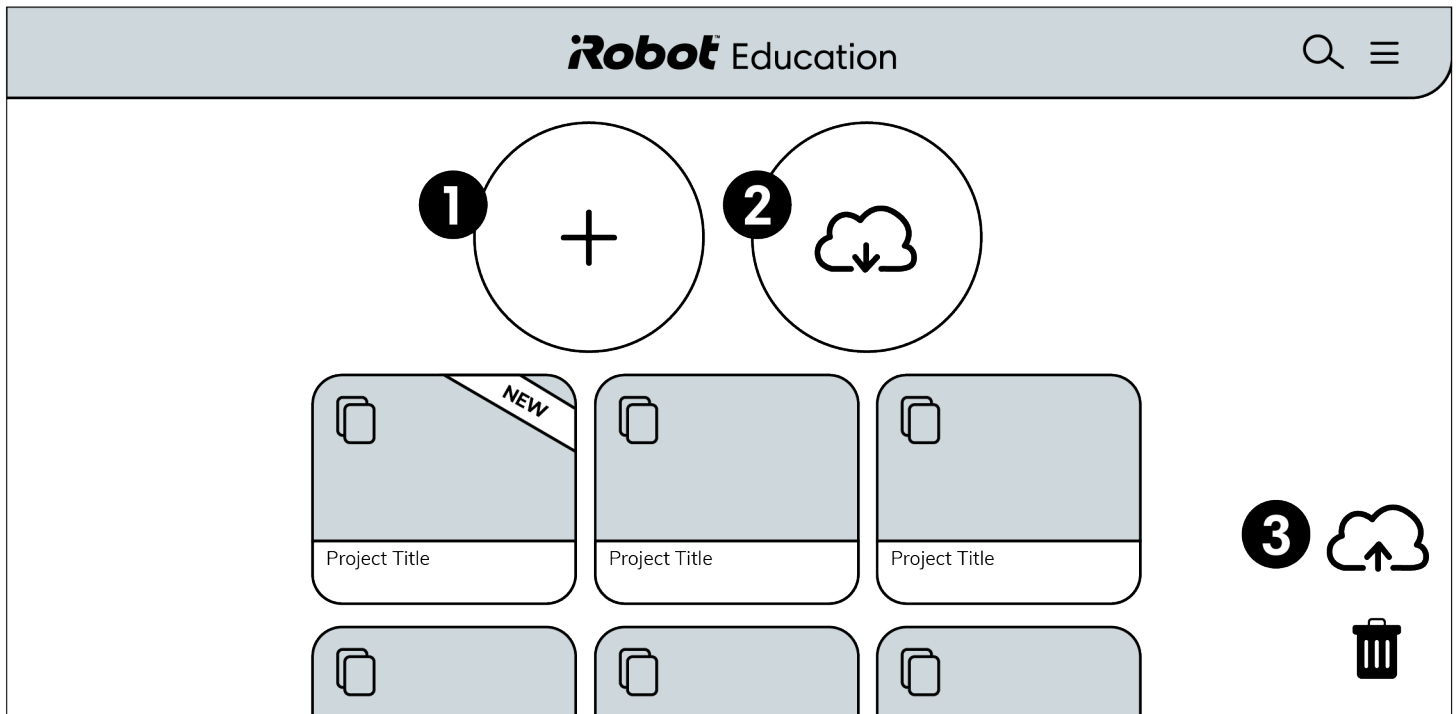# CODE/BREAK

## "What Goes Up(load), Must Come Down(load)"

Solve the puzzles in this activity packet to unlock the Root Robot's secret message.

## Things You'll Need:

- [ ] Printed Activity Packet
- [ ] Access to **code.irobot.com** or **iRobot™ Coding App**
- [ ] A pencil/ pen

# Get to Know the Project Manager

Go to **code.irobot.com** or the **iRobot™ Coding App** and start exploring!



## ① Start a New Project
Click this icon to start a new project.

## ② Download a Project
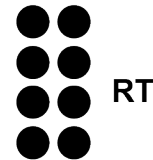Click this icon to download projects with Download Keys.

## ③ Upload a Project
Click this icon to upload and share a project.

# Getting Started: How to Play

Learn how to use clues to unlock new coding projects.
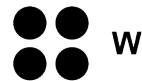
**Step 1:** (Circle) the correct answers to the questions.

1)  2 + 2 =      LK      RT      CJ

2)  Which shape
    has 3 sides?      7A      3E      Q2

3)  9 - 1 =      U      W      H

**Step 2:**

Write the clues in the Download Key.

**Download Key**

C  J  ____  ____  ____
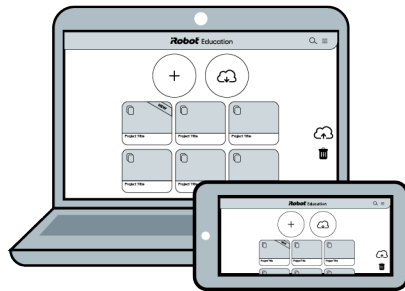<u>1</u>      <u>2</u>      <u>3</u>

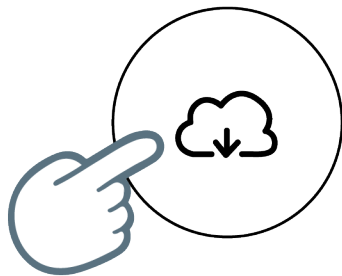# Getting Started: How to Play (Continued)

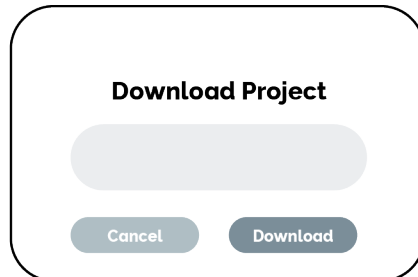Learn how to use clues to unlock new coding projects.

**Step 3:**

Visit **code.irobot.com**
or the **iRobot™ Coding App**.

**Step 4:**

Click on the **Download Icon**.

**Step 5:**

### Download Project

Cancel    Download

Enter your Download Key from
page 3 and click **Download**.
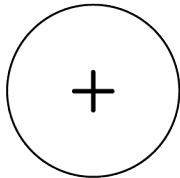
**Step 6:**

NEW

Great Job!

Open the downloaded project
"**Great Job!**"

**Ready? Go to page 5 for your first challenge!**

# Challenge #1

Follow these steps to solve Challenge 1!

Step 1: Start new projet.

Step 2: Build this code.

1) Which block tells Root to move forward?

9J    GK    LP

2) Which shape does this code draw?
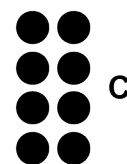
QZ    7G    S2

3) Tap on the Light Block.

How many colors can Root glow?

M    D    C

**Excellent Effort!**

Write the clues in the Download Key.
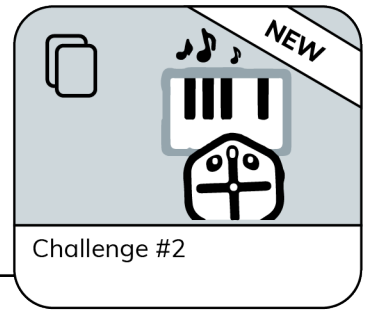
Use the Download Key to download Challenge #2!

**Download Key**

_____ _____    _____ _____    _____ _____
1          2          3

# Challenge #2

Use the Download Key from page 5 to download "Challenge #2".

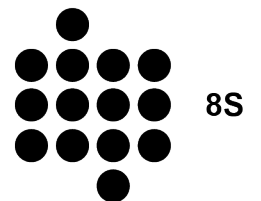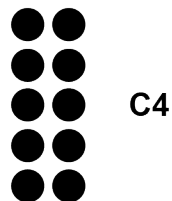Open "Challenge 2," and use the code to answer these questions!

1) Which song is it?

| Twinkle Twinkle Little Star | **MD** | Baby Shark | **P9** | Itsy Bitsy Spider | **XO** |

2) How many Music Blocks are there total?

**C4**          **A3**          **8S**

3) Which note is the 2nd Music Block?

E  **E**          C  **C**          G  **G**

**Great work!**

Write the clues in the Download Key.

Use the Download Key to download Challenge #3!

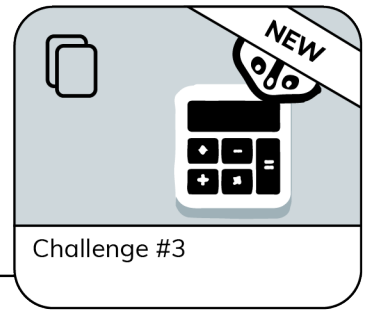**Download Key**

___ ___  ___ ___  ___
    1         2       3

# Challenge #3

Use the Download Key from page 6 to download "Challenge #3".

Open "Challenge 3," and use the code to answer these questions!

1) What happens when you touch Root's top left touch sensor?

XV    B7    YD

2) How does Root behave when you press Root's right bumper?

WL    9J    WB

3) What will Root do with this sequence:

Z    H    Q

**Great work!**

Write the clues in the Download Key.

Use the code to download the final project!

### Download Key

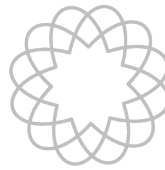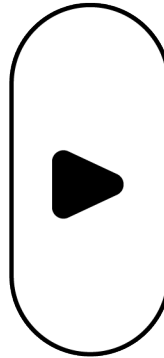_____ _____  _____ _____  _____
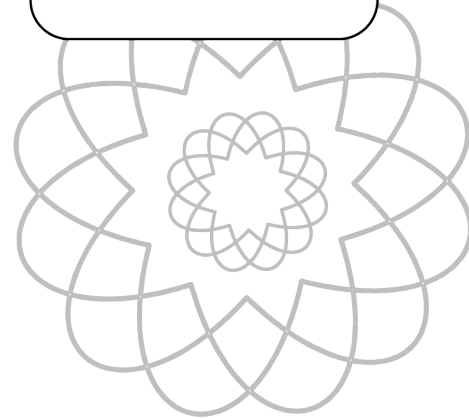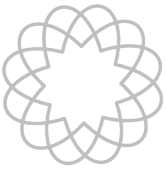1           2          3

# Congratulations!

You made it through all of Root's challenges!

## PRESS ▶ PLAY!

What is Root's secret message?

🖉 _____

_____

**Nice work! Stay tuned for more Code Break Challenges!**

**Code a project for a friend to try!**