






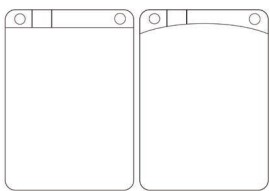


Spaceship Spinout C 2.1 - C 2.3

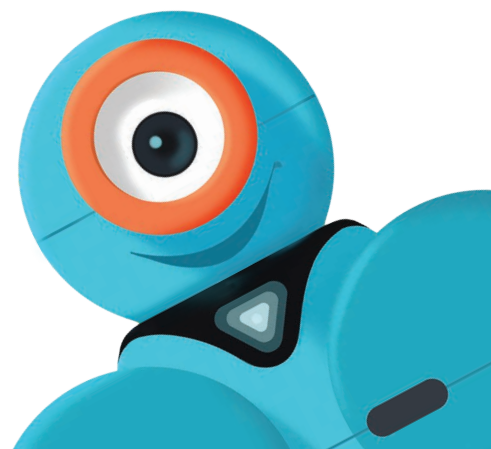
Are you ready to take on the challenge?

-  Review the first **Challenge Card** in the set.
-  Use one of the **Planning Worksheets** to plan out your code.
-  Open the *Blockly* app.
-  Complete the challenge.
-  Take a video of your robot as it completes the challenge.
-  Use one of the **Reflection Worksheets** to reflect on your work.
-  Work through each of three **Challenge Cards** in the same way.



Bonus

You can design your own Challenge Card and have your friends try them out!



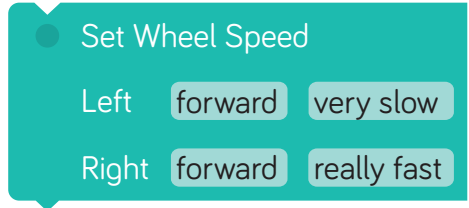


Spaceship Spinout!

Dash's spaceship is spinning
out of control!



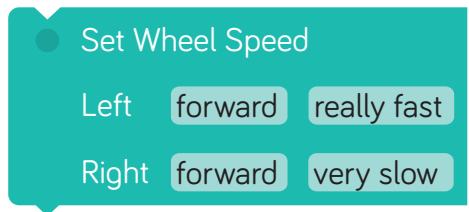
1. First, have Dash's spaceship **spin left 3 times**.



2. Dash knows something isn't right!



3. Now have Dash's spaceship **spin right 3 times**.



What can Dash do to get control of the spaceship?

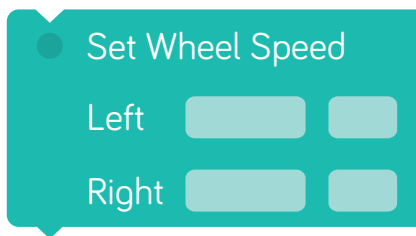
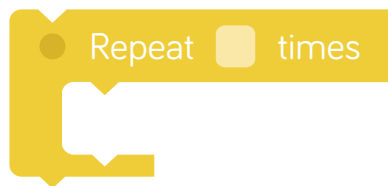


Help, help, help!

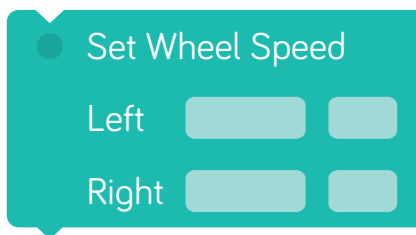
Dash's spaceship is *STILL* spinning out of control! It's time to call for help!



1. Dash's spaceship is getting worse! First, have the spaceship **spin left 5 times**.



2. Then have the spaceship **spin right 5 times**.



3. After **each spin**, have Dash **call out** for help!



Who will come to save Dash?



3.3

Loops




Robot Rescue!

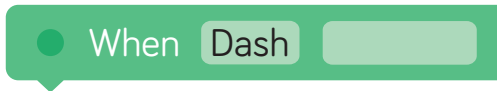
It's time to save the day!
Let's help stop Dash's
spinning spaceship!





1. First, program Dash to **spin forever**.
2. Then have Dash **call out** for help after **each spin**.
3. **When** Dash is **picked up**,  have Dash **stop the wheels** and **sigh 3 times**.

Hint: You may need some of these blocks:



Hurray! Dash is saved!



Add **lights** to the program.

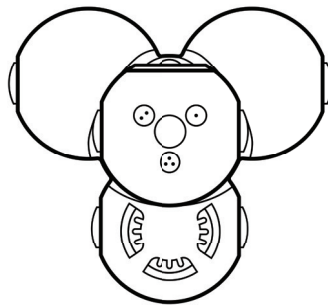
Dash Planning Worksheet

Name(s): _____ Date: _____

Coding Level: _____ Card #: _____

What do you want Dash to do?

Draw out the steps of the challenge or write a few sentences describing your goal.



General Planning Worksheet

Name(s): _____ Date: _____

Coding Level: _____ Card #: _____

1. What do you want Dash or Dot to do?

Draw out the steps of the challenge or write a few sentences describing your goal.



2. What will you do to achieve your solution?

What will each team member do? What steps will you need to take? What blocks will you use?



Reflection Worksheet

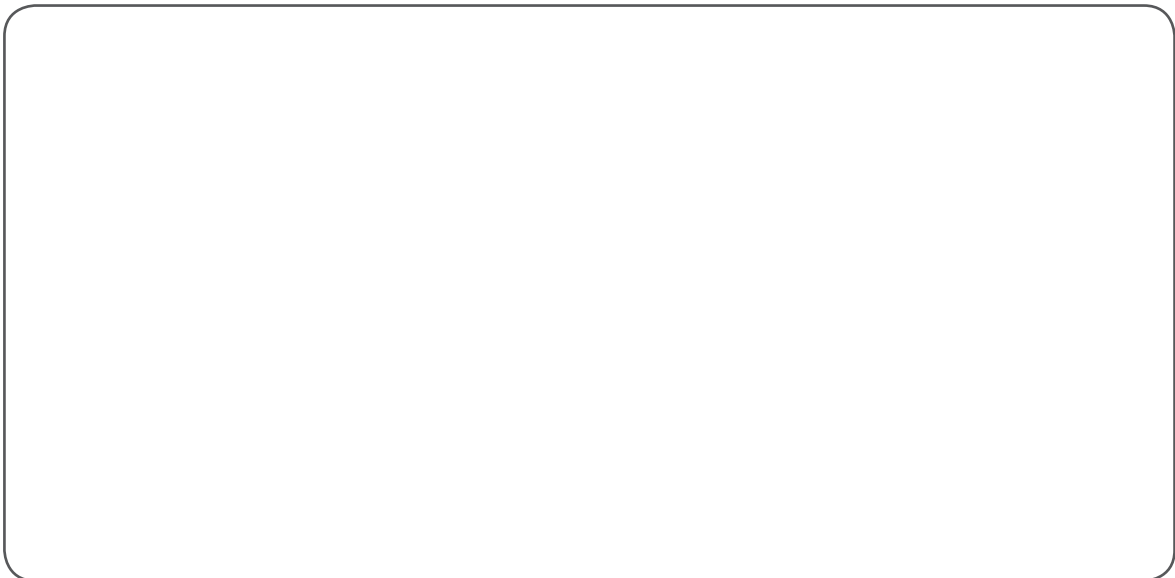
Name(s): _____ Date: _____

Coding Level: _____ Card #: _____

1. What did Dash and/or Dot do when you ran your program?



2. Did you make any mistakes? If so, how did you fix them?



Advanced Reflection Worksheet

Write a reflection entry in your Wonder Journal. Try to answer these questions as part of your reflection:

Results

- What did Dash and Dot do when you ran your program?
- Did you make any mistakes? If so, how did you fix them?

Connections

- What did you like the most about this challenge? Why?
- What was the most difficult part of the challenge? What did you learn from it?

Next Steps

- If you had more time, how would you change or add to your code?
- What are you planning to do next? Will you try another Challenge Card or start a new coding project?

