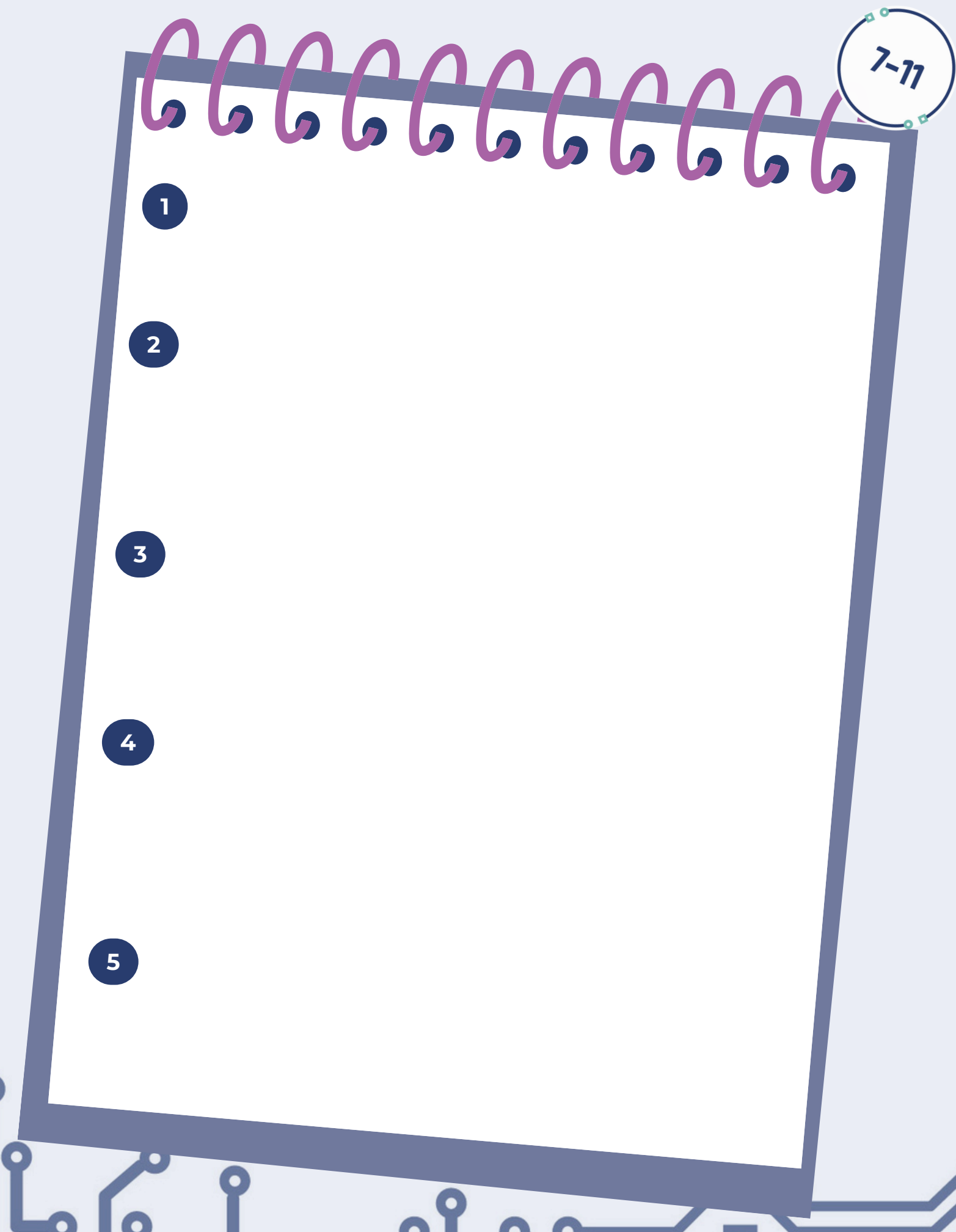


Design Specification

Things to think about...

- 1 Purpose** What tasks does your robot need to complete?
- 2 Key features** What are the main parts of your robot?
- 3 Functionality** How will your robot carry out its different tasks?
- 4 Materials and mechanisms** Which materials will your robot be made from? Why have you selected these materials?
- 5 User needs** Who will be using your robot? How does the design meet their needs?



Design Specification Support

7-11

Things to think about...

1 Purpose

What tasks does your robot need to complete?

2 Key features

What are the main parts of your robot?

3 Functionality

How will your robot carry out its different tasks?

4 Materials and mechanisms

Which materials will your robot be made from? Why have you selected these materials?

5 User needs

Who will be using your robot? How does the design meet their needs?

1 Our delivery robot will feature a compact, sleek design with a durable, weather-resistant exterior. 2 It will carry food, with compartments for both perishable and non-perishable items. 3 The robot will have sensors and cameras to help it navigate. It will have 6 wheels so that it can travel in rain and snow. 4 Constructed from lightweight, recyclable materials, it will be energy-efficient and equipped with solar panels for sustainable operation. 5 It will be free for customers to use, customers can track it at all times and it will be able to up kerbs and right up to doorsteps to help vulnerable people.