

## COUNTING IN 2s & 6s

It was a busy night in Rusty's Repair Shop, deep in the heart of the Scrapheap, when the doors swung open with a loud BZZZT! In stumbled HippiieBot, RaceBot, and a slightly sparking GamerBot, looking more confused than usual.

**"Help, Rusty!"** HippiieBot beeped.

**"Our circuits are all scrambled!"** groaned RaceBot.

**"My number scores are glitching!"** added GamerBot.

**"I can't level up!"**

Rusty took one look and gasped. **"Missing numbers... tangled sequences... a total number meltdown! We need help - fast!"**

### INSTRUCTIONS TO STUDENTS:

Rusty and the Bots need your help! Can you complete the number patterns and repair the circuits?

### LEARNING FOCUS:

- Skip counting in 2s and 6s
- Identifying and completing number patterns
- Building fluency in mental maths



# Help fix HippieBot

COUNTING  
UP IN

# 2s

CIRCUIT  
ROUTE

Help HippieBot  
finish their  
number sequence!  
Count up in 2s to  
power it up:

The circuit board features a grid of components and a path of connections. The path starts at a 'START' terminal, goes right to a box with the number '2', then right to a box with '4', then down to a right-pointing arrow, then left to an empty box, then right to a box with '8', then down to a left-pointing arrow, then left to a box with '12', then down to a right-pointing arrow, then right to an empty box, then down to a left-pointing arrow, then left to a box with '18', then down to a right-pointing arrow, then right to an empty box, and finally down to an 'END' terminal. There are also several other empty boxes and arrows scattered on the board.

**NUMBOTS**

PEACE LOVE

LOWER POWER

LOV3

# NUMBOTS

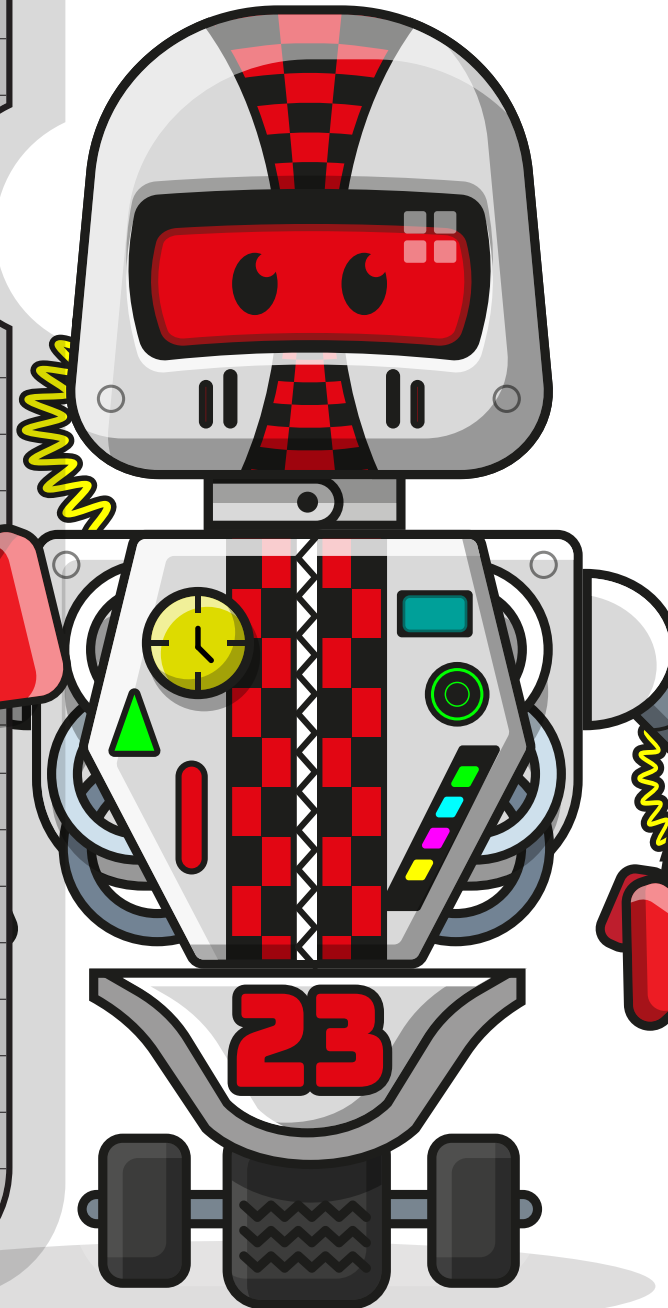
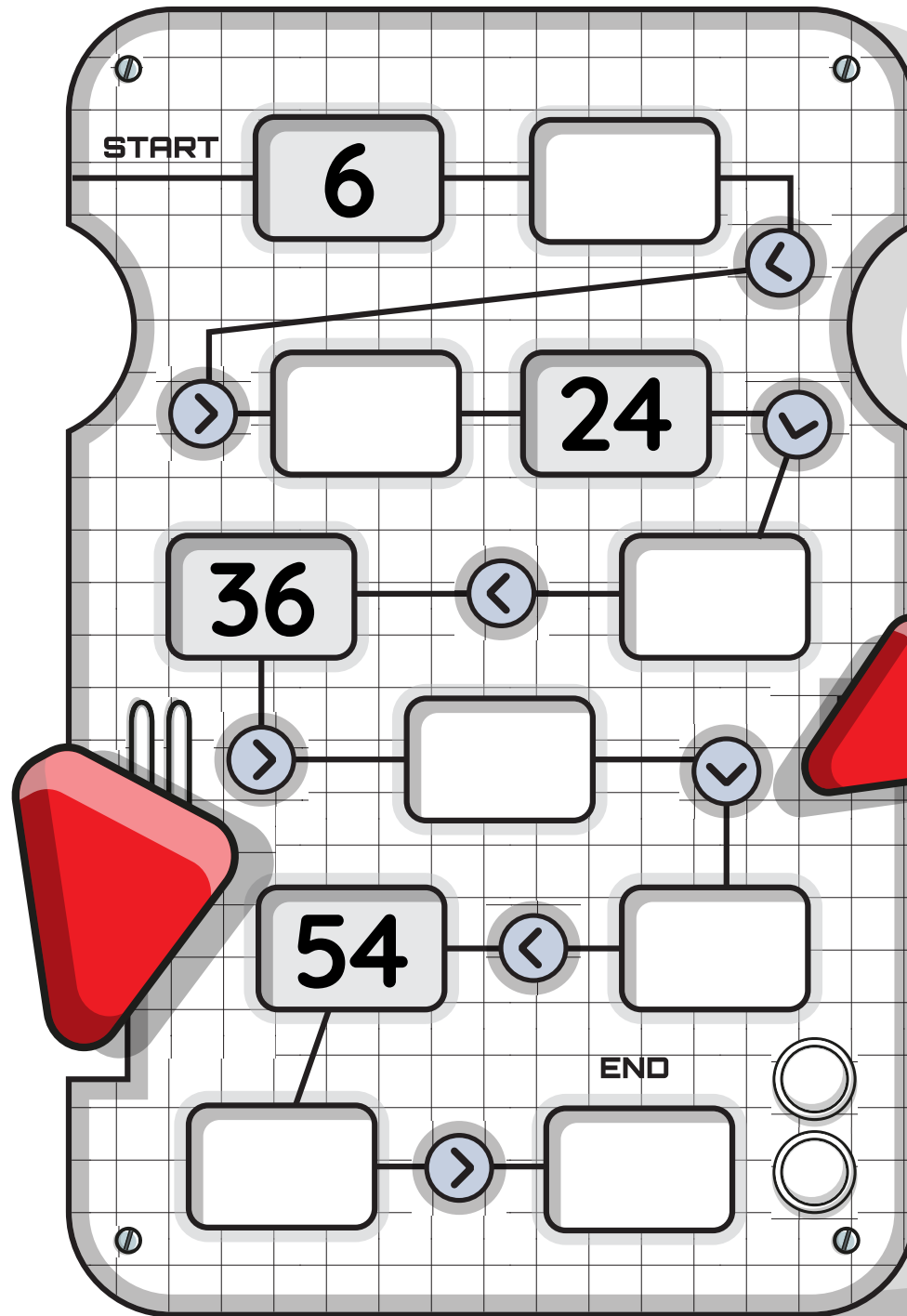
## Help fix RaceBot

COUNTING UP IN 6s

# 6s

CIRCUIT ROUTE

RaceBot lost some numbers in their circuit. Count up in 6s to reconnect the power:





## EXTEND & CHALLENGE

### EXTENSION - DESIGN YOUR OWN RUSTY CIRCUIT:

- Choose a number to count in (2, 5, 10, or even 6!)
- Draw a circuit of at least 10 numbers with some missing
- Swap with a partner and try to solve each other's circuits!

### CHALLENGE QUESTIONS (OPTIONAL):

- How many times do you have to count in 2s to reach 26?
- What is the 5th number in the 6s pattern?
- Can you find a number that's in both the 2s and 6s patterns?

