ACTIVITY WORKSHEET · AGES 5–10

# Find the Shortcut with Tariq

Let's practice computational thinking



**TARIQ'S TIP**

A repeat tells the computer to run the same steps again.

**The STEM Squad**
Read their books at thesquadbooks.com

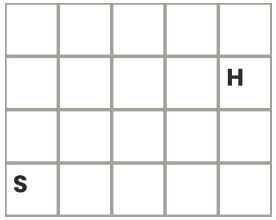
Name _____ Date _____

**COMPUTATIONAL THINKING**

You'll need: A pencil. Each arrow moves one square: ↑ up, → right.

## 1 Decompose

Trace this route from S: → → ↑ → → ↑. Break it into two parts.




## 2 Find patterns

Which group of arrows appears twice?

## 3 Abstract

Keep only the arrows and how many times the group repeats.

## 4 Write an algorithm

Write one repeat command. Run it on the grid. Do you finish at H?