

# Coding

## Insight

# 2

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# Coding Insight 2

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# Introduction

## Welcome to Coding Insight 2!

This book is designed to introduce the foundations of coding to primary school students in a simple and engaging way. Coding Insight 2 combines computational thinking with creative activities to build problem-solving, sequencing, and logical reasoning skills.

Each chapter is supported by stories, puzzles, and activities that link coding concepts to daily life. Teachers will find a balance of structured lessons and interactive tasks that nurture both collaboration and independent learning. Coding Insight 2 aims to make coding approachable, enjoyable, and relateable for young learners, while equipping them with essential skills for the future.

— The Publisher

# Key Features of the Series



## Warm-Up

Introduces the lesson with a simple, engaging activity like picture spotting, short questions, or discussions to activate preknowledge and connect learning to daily life.

## Remember and Recall

Review exercises to check understanding that reinforce key concepts.



## Let's Do It

Give the correct order of instructions for planting a seed, starting with 1.



## Let's Do It

Hands-on practice where students apply knowledge through various engaging activities.



### Think and Share

It encourages imagination, reflection, and discussion by asking students to share ideas or pretend to be experts, helping them build creativity and communication.

**Brain Pops**  
A fun fact or short "Did you know?" moments that shares history, science, or surprising insights.



### Assess Yourself

A self-assessment section with more structured and extended exercises where students test their mastery independently, often combining different types of questions.

**Brainstorm**  
Open-ended deep learning, creative, and critical thinking tasks where students design, create, or reflect in ways that apply knowledge to real or imaginative contexts.



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# Meet Our Friends!



## Johan

is always curious and loves learning new things. He is cheerful and enjoys figuring things out with his friends. His positive attitude often helps the group stay on track.



## Pascal

is adventurous and loves sports. He is always ready for a game or an outdoor adventure. Brave and energetic, he encourages his friends to explore and have fun.



## Robin

is creative and loves making things. She always has fun ideas for crafts or activities and thinks outside the box. Her playful and imaginative spirit makes her a joy to be around.



## Indy

is kind and polite, always helping others. She is calm and thoughtful, but also a little clumsy, which leads to funny moments with her friends. Her caring nature brings the group together.



## Mika

is quiet and shy, but she is very careful and thoughtful. She thinks things through before speaking or acting, and she is always there to offer advice when her friends need it.



## Edison

is the smart one, always reading and sharing interesting facts. He loves solving problems and helping his friends understand things. Though serious at times, he has a playful side too.

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Chapter

1

# Steps, Loops, and Routes

New topic alert!  
How do you feel?



Excited



Nervous

Let us think in steps!

In this chapter, you will follow steps, repeat actions, and find safe routes on simple maps. Get ready to move, loop, and explore like a young coder!



## Coding Lingo

- Instructions
- Loops
- Maps



## Warm-Up

Every day, we follow steps to do many things in our daily lives.

Each activity is made up of actions that we do one by one, such as brushing our teeth, making a sandwich, or building with blocks.

Some steps happen only once, such as opening a bottle or turning on the light.



Just like a map shows the way, steps and repeats guide us too.

In this chapter, we will see how these simple ideas help us in life and in coding!

### Think and Share!



1. Can you name something you do every day that needs steps?
2. If you were going on a treasure hunt, why would a map be helpful to you?



## Simple Instructions

Imagine you are making a sandwich.

You take a slice of bread, you spread the peanut butter, and you are ready for the banana.

But wait!

You forgot some important step.

Peeling and slicing the banana!

That is why giving instructions in detail and the right order is super important!



To make a peanut butter and banana sandwich,  
You cannot just mix everything together and hope it works.  
You need to follow the steps in the right order.  
Each small step helps you finish the sandwich properly.  
That is what instructions are for.

Clear instructions help us do things properly.

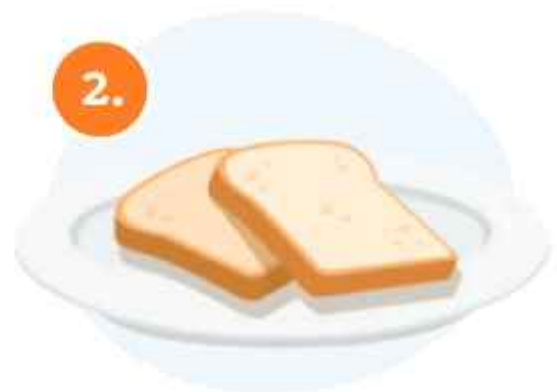
**For example, here is how Pascal makes his own peanut butter and banana sandwich.**



1.

Wash your hands.

Take two slices of bread.



2.



Open the jar of the peanut butter.



Spread the peanut butter on one slice of the bread.



Peel the banana.

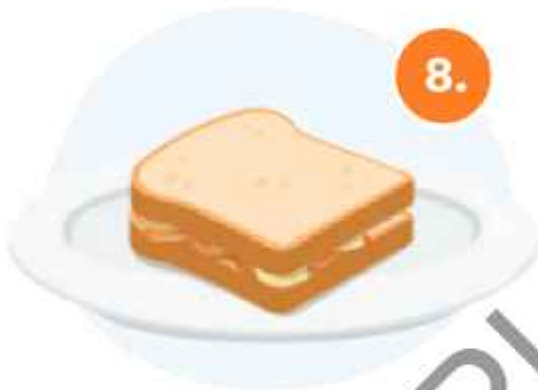


Cut the banana into small pieces.

Put the banana on the bread.



Place the other slice of bread on top then press the sandwich gently.



Your sandwich is ready to eat.



When we follow steps, sometimes the order is not always important. For example, when making a peanut butter and banana sandwich, you can prepare the banana first or spread the peanut butter first, and the result is the same in taste.

You can even add extra steps, like mashing the banana.

However, in some activities, the order of steps is important because changing it can change the result.

**Imagine you are drawing a scenery.**



**Draw the background, like mountains, trees, and the sky.**

**2.**

**Draw the front part, like a house, people, and animals.**



3.

Now, add colour as finishing touches to bring the scenery to life.



If you try to colour before you draw, or draw the front of the picture before the background, it might not look right.

Some steps can be done in any order, but others must be followed in the right order to get a good result.

Instructions help us do many things.

They can be easy, like “How to make a cup of tea?”  
or harder, like “How to win a chess game?”

But they all give us steps to follow so we can reach our goal.

**Think and Share!**



Can you think of some other things that need steps in the right order?

## Let's Do It

Give the correct order of instructions for planting a seed.  
Starting with 1.



Water the soil to keep it moist.



Cover the seed gently with soil.



Put the seed into the hole.



Make a small hole in the soil using your finger.