

Worksheet – Introduction to computational thinking

Module: Introduction to computational thinking

Duration: 90 minutes

Level: Beginner

Target group: Deaf youth developing logic and problem-solving skills

Part 1 — Warm-up (Understanding the Basics)

1. Match the word with the meaning:

Word	Meaning
Decomposition	☐ Breaking a big problem into smaller parts
Pattern Recognition	☐ Finding things that repeat or are similar
Abstraction	☐ Focusing on what is most important
Algorithm	☐ A clear list of steps to solve a problem

Write your answers (1–4):

1 → __ , 2 → __ , 3 → __ , 4 → __

2. Circle the correct answer:

Computational thinking is used in:

- A. Cooking and cleaning
- B. Solving problems step by step
- C. Only in computer coding

Answer: _____

Part 2 — Practice: “CT Relay” Activity

Work in small teams.

Each team chooses a simple task (e.g., plan a birthday party, make breakfast, organize a trip).

Follow the steps below:

Step	Task	CT Principle
1	Break the big task into smaller parts	Decomposition
2	Find repeated patterns	Pattern Recognition
3	Focus only on what is needed	Abstraction
4	Write your final plan as steps	Algorithm

Example:

Task: “Making a sandwich”

- Decomposition → Get ingredients, prepare tools, assemble sandwich
- Pattern → Always wash hands before starting
- Abstraction → Ignore plate color, focus on steps
- Algorithm → 1. Get bread, 2. Add cheese, 3. Add ham, 4. Eat

Part 3 — Apply Your Knowledge

Activity: “Everyday Algorithm”

Write down a short algorithm for one of these:

- Brushing your teeth
- Preparing your school bag
- Logging into your email

Write your steps here:

Part 4 — Quick Quiz

Question

1. What is decomposition?

2. What is a pattern?

3. What is an algorithm?

4. What does abstraction help you do?

Choose the correct answer

☐ Making tasks smaller

☐ Mixing tasks

☐ Ignoring details

☐ Something that repeats

☐ Something new

☐ Something random

☐ A plan of steps

☐ A mistake

☐ A password

☐ Focus on key parts

☐ Add more confusion

☐ Hide everything

Part 5 — Reflection

- What did you learn today? _____
- What was difficult for you? _____
- Where can you use computational thinking in your life? _____

Teacher's Note:

This worksheet can be used as a review or teamwork activity. Encourage participants to use gestures, pictures, or short notes to explain CT principles.