

Name:

Student Number:

Date:

Lesson 1 The Mind of a Robot (Part I)

Activity Sheet

Context

Welcome, young time traveler! You are going to time travel to the Robot Society in the future (perhaps in 2084). Before you start your journey, you need to figure out how citizens in the Robot Society might think and feel.

In this learning activity, you will work like a robot scientist to have a close look at the “body” and the “mind” of the robot – is there anything different between the body and the mind of a human and that of a robot? You will develop your “mind-reading” skills on a robot, and further, you would know how to communicate with the robots in the Robot Society.

Task 1-1 Mini-debate

- (1) Run the program, which will say and ask you some questions. Write down your answers in the box.

After that, think of the following question:

Do you think you are chatting with a robot or a human?

- (2) Discuss with your partner(s):

Do you think a robot could think and feel like a human?

Write down your opinions and arguments in the space below:

Task 1-2 Do as I say

Your teacher now pretends to be a robot, and you need to “program” him/her to do something.

What do you want the “robot” to do?

Write down your **exact** instructions **step by step** in the space below:

Task 1-3 Compare the Code

Run and compare the two programs. Any difference?

Task 1-4 Program Your Partner

Now it's your turn to pretend to be a robot. Work with a partner and "program" each other to perform a task. Write down your **exact** instructions **step by step** in the graphical blocks as follows:

Step 1

Step 2

Step 3

Step 4

Step 5

Step 6

Step 7

Step 8

Step 9

Step 10

Step 11

Step 12

Key Concepts from this Learning Activity

Terms	What it means
Input	Any information or data that is sent to a computer or device.
Output	Any data or display that is the result executed by a program.
Programming	Communicate with a computer or robot to perform certain tasks and solve problems.
Programming Language	The language that a computer or robot can understand.