

Activity 1.3.3 - Input process output

Estimated duration	60 minutes
Requirements	Finishing the previous topics of this module - advanced activity
Hardware and Software tools used	- Computer for the teacher - Scratch (web-based) - Prepared set of cards (in case of independent practice)
Type of assessment	Multiple choice

This activity asks students to identify and reflect on the data elaboration process that occurs in AI-based systems. Starting from a concrete example, students need to identify the input, the AI process and the corresponding output.

Procedure

- **Anticipatory set:** the teacher download and print the Input, process and output cards (see Resources for Teachers) in multiple copies or use a digital version. The Scratch version of the game can also be used.
- **Independent practice:** the cards could be provided to students in small groups to sort on a large table. Alternatively, each student gets one card, either an input, process, output or an AI application card. Students mingle around the room looking for the three other students who have cards that are a match. A benefit of this is that fewer cards need to be printed; however, students don't get to sort all cards.
- **Guided practice:** When all the cards have been matched, students share their groupings as a class. A teacher answer sheet is also available in the resources.

Troubleshooting

Possible issue	Possible solution
The activity might be too short or not engaging	Different decks of cards with different technology can be made, also by students themselves.

Resources for teachers

- This activity is described here (see Step 4):
<https://www.digitaltechnologieshub.edu.au/teach-and-assess/classroom-resources/lesson-ideas/recognising-ai/#>
- Card game (in English) to match correct input-process-output for the AI system shown on the card.
https://www.digitaltechnologieshub.edu.au/media/1l0fhcxp/recognising-ai_cards-input-process-output.pdf

and the teacher answer sheet
https://www.digitaltechnologieshub.edu.au/media/sxzi5hgt/recognising-ai_cards-answer-page-input-process-output.pdf
- Editable version of the cards (that can be translated)
<https://docs.google.com/presentation/d/1GuebAYlwnlqkZDcyHtYMqYpyb-fi3RVibcF7CF9XUjl/edit#slide=id.p>
- Scratch game version (in English) of the previous resource
<https://scratch.mit.edu/projects/375028792>