AI-GREENER
2024-1-AT01-KA220-SCH-000248327

Teacher Guide — Assessment Criteria

Lesson: *AI Waste Classifier – Smart Recycling with Artificial Intelligence*
Target Group: ISCED 2–3

Purpose of Assessment

This assessment framework helps teachers evaluate not only the final output of students' work, but also the learning process, their collaboration, and their understanding of AI and sustainability principles.
Assessment is aligned with the **Learning Objectives O1–O4** and supports the development of **digital, STEM, and citizenship competences**.

Assessment Components

The evaluation consists of **three complementary components**:

1. Performance-Based Assessment

Assessed **during the lesson** (group work and hands-on activity)

Criterion	Indicators
Participation	Students contribute actively, share tasks, collaborate respectfully
Practical Skills	Students successfully collect data (photos) and train the AI model
Investigation Skills	Students observe AI performance, identify errors, and interpret accuracy
Critical Thinking	Students propose realistic model improvements

2. Portfolio Assessment *(recommended for submission)*

Provides **evidence of the work completed** and supports reflection

Required Portfolio Elements	Description
3–5 Screenshots	From the training and testing stages of the model
Waste Categories Description	Which categories the group chose and why
Reflection on Model Performance	Correct vs. incorrect predictions and causes
Ideas for Improvement	Short notes on possible changes or additional training

3. Self-Assessment

Develops responsibility, self-reflection, and learner autonomy
Students rate their own:

- Contribution to the group
- Understanding of AI basics
- Awareness of sustainability impact

Teacher may use:

- A 4-point rating scale (Excellent / Good / Fair / Needs improvement)
  or
- A short written reflection

Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

Suggested Weighting

Flexible, depending on school requirements:

Component	Suggested Weight
Performance-Based	**40%**
Portfolio	**40%**
Self-Assessment	**20%**

(Weighting can be adapted — teachers may emphasize either cooperation or documentation.)

Tips for Teachers

- Observe each group during hands-on activity and take short notes
- Encourage all students to take roles in the project
- Remind students to document their process with screenshots
- Provide guiding questions to support deeper accuracy analysis
- Self-assessment should be completed **individually**, not in groups

Connection to Learning Objectives

Learning Objective	How it is Assessed
O1 – Waste categories	Presentations + Portfolio
O2 – Use AI tool	Performance + Screenshots
O3 – Evaluate accuracy	Portfolio notes + Discussion
O4 – AI for sustainability	Reflection + Self-Assessment

Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.