



AI-GREENER

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LESSON PLAN

AI for Green Entrepreneurship: Creating Sustainable Business Solutions

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Disclaimer



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1. TITLE

AI for Green Entrepreneurship: Creating Sustainable Business Solutions

2. GRADE LEVEL

- ISCED Level 3 – Upper Secondary Education (ages 15–18)

3. SUBJECT AREA

- Environmental Studies
- Economics
- Computer Science
- Technology and Design
- Social Studies

4. TYPE

- Lesson Plan

5. DURATION

- 2 x 40-minute classes

6. LEARNING OBJECTIVES

- O1 – Explain how AI can support green and sustainable entrepreneurship.
- O2 – Identify environmental problems that can be solved using AI-based business ideas.
- O3 – Design a simple AI-powered green startup concept.



04 – Evaluate business ideas based on sustainability and social impact.

7. Key Competences Developed

- Literacy
- Digital competence
- Personal, social and learning to learn competence
- Citizenship competence
- Entrepreneurship competence

8. Prior Knowledge / Prerequisites

Basic understanding of AI applications

General knowledge of sustainability and environmental issues

9. Lesson/Project Outline

Phase 1 – Introduction (Engage & Contextualize)

Activities:

Teacher introduces green entrepreneurship and explains how startups can address climate and environmental challenges.

Discussion question:

“Can technology and profit work together to protect the planet?”

Examples of AI-powered green startups (energy optimization, waste sorting, smart farming).

Expected Output:

List of environmental challenges that could become business opportunities.

Resource (name)	Link (to the folder on Teams)



Phase 2 – Exploration (Investigate & Compare)

Activities:

Group work: each group analyzes a green startup case using AI.

Focus on:

Problem addressed

AI solution

Environmental impact

Expected Output:

Completed startup analysis worksheet.

Resource (name)	Link (to the folder on Teams)

Phase 3 – Application (Hands-On Practice)

Resource (name)	Link (to the folder on Teams)

Activities:

Groups design their own AI-powered green startup idea.

They define:

Environmental problem

AI solution

Target customers



Sustainability benefits

Expected Output:

One-page Green AI Startup Canvas.

Resource (name)	Link (to the folder on Teams)

Phase 4 – Reflection & Consolidation (Present & Connect)

Activities:

Group presentations.

Peer feedback.

Individual reflection on entrepreneurship and sustainability.

Expected Output:

Presentation + reflection form.

Resource (name)	Link (to the folder on Teams)

10. Assessment Criteria

Understanding of green entrepreneurship

Creativity and feasibility of AI solutions

Sustainability focus



Collaboration and communication

Resource (name)	Link (to the folder on Teams)

11. Teaching Materials

Name	Type (Developed/Existing)	Link	Role in the lesson

12. External Resources and References

Resource (name)	Link (external or to the folder on Teams)
UN Sustainable Development Goals	https://sdgs.un.org
AI for Earth (Microsoft)	https://www.microsoft.com/ai-for-earth