



2025–2026 ACADEMIC YEAR
GRADE 9 CHEMISTRY PROJECT

NAME OF THE PROJECT: UNDERSTANDING WASTE'S EFFECT ON NATURE

Grade	Content	Acquisition	Duration	Assessment
9	Impacts of Waste on the Environment and pollution	Discuss the causes and results of environmental pollution	Academic year	Research and 3D Poster Rubric

Dear student;

The objective of this project is to let you gain awareness about the causes of pollution in the environment and its short-term and long-term effects. Each waste, due to the substances that make it up, needs different times to end its adventure in nature.

We expect you to research the decomposition times of waste in nature.

In order to share your research results with us, you should design a 3D poster. The poster you prepare should be interesting and influence generations.

Important Warning

- Do not copy sentences directly from books, the internet, or AI tools (such as ChatGPT).
- Write in your own words.
- Always give the reference when you use another person's idea, picture, or sentence.
- When you complete the experiment, you must also submit a **video recording**. In the video, it must be clear that **you are doing the experiment yourself**.
- During poster or model-making assignments, the entire process of **your work must be photographed or recorded as a time-lapse video**.

You should follow the following steps;

- A. Research**
- B. Research report**
- C. 3D Poster**
- D. Important Notes**

A. Research:

- Determine the subtitles
- Determine the references (A minimum of 5 sources are required:

*Only 3 web sites are allowed as sources

*You may use your text as a source)

B. Research report should contain;

- A cover paper, research of the subtitles, preface, contents, quotation, footnote etc.
- Explain why you chose this assignment in a preface.



- Search about the pollutants, reasons and results, side effects.
- Conduct research about changes in Istanbul stemming from this pollution during the last 10 years.
- Observe how you and your family cause environmental pollution and include it in your report.
- Share your thoughts on what we can do to reduce the waste left to nature.
- Find physical and reliable data about your research.
- Bring creative solutions to the type of pollution you choose.
- Explain how you construct your work step by step.
- References

C. 3D Poster

Guidelines:

1. The 3D poster should have an image containing 10 types of waste and their extinction time.
2. You are asked to present your solutions to reduce their effects on health and environment.
3. A slogan that describes one or more of your solutions. Be Creative!
4. Your poster must be neat, colorful and contain all the information listed above.
5. A soft copy of the report must be submitted.
6. The 3D poster you have prepared should have an interesting and original design.
7. No handwritten information! All work must be typed neatly.
8. Write a paragraph related with the evaluation below and add this paragraph to your report.

Evaluation of your own work and Conclusion:

- * Add all the details about the difficulties you had throughout your research experience.
 - * Explain how you improved your research methods in this study. (What contributions did this assignment make to you?)
 - * What would you change about this assignment if you were at the beginning of your study? Why? Criticize your work in a paragraph.
 - * Evaluate your own work by responding to the questions below;
1. Is your 3D poster attractive and interesting?
 2. Are there any improvement suggestions?
 3. Did any of your family members or friends read your poster and make any comments on it? What were the comments?

D. Important Notes

- Do not copy-paste directly from sources; summarize in your own words.
- If you make a direct quotation, provide proper citation.
- The report must be submitted both digitally (Word or PDF) and in printed form.
- Use a readable font (e.g., Times New Roman, size 12) and double line spacing.
- The report should be between 5–8 pages, excluding visuals.

FIRST CHECK: (Planning)

Do your research and determine the references.

SECOND CHECK:

Complete your research report and identify the pictures



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Assessment criteria are attached.



ACADEMIC YEAR 2025-2026

SCIENCE DEPARTMENT

RESEARCH AND 3D POSTER RUBRIC

	CRITERIA	EXCELLENT (5 POINTS)	GOOD (3-4 POINTS)	FAIR (2-3 POINTS)	POOR (1-2 POINTS)	NOT EXIST AT ALL (0 POINT)	POINTS EARNED
Content of the research paper (25 points)	Determination of the subtitles.						
	Research of the subtitles.						
	Accuracy of the content.						
	Relevancy of the content to grade level.						
	Originality						
Neatness of the research paper (30 points)	Cover paper.						
	Content, design of the title and foreword.						
	Page design. (Fonts, style)						
	Plan, introduction, body, conclusion.						
	Quotation, footnote, references.						



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	Grammar, Labeling, Spelling.						
Quality of the brochure/poster (45 points)	Project Title.						
	Plan, introduction, body, conclusion.						
	Usage of at least 10 visual materials.						
	Attractiveness / Professionalism						
	Creativity of poster or brochure design.						
	Recall scientific knowledge and use scientific understanding to construct specific explanations.						
	Effort (Size of the poster or number of pages in brochure.)						
	Conclusion paragraph. Critically analyze and evaluate information supported by scientific understanding.						
	Discuss and evaluate the moral, ethical, economic, political, cultural, environmental, and social implications of the use of science in solving specific issues.						
TIMING		FIRST CHECK (IF NOT; -5 POINTS) FIRST DRAFT:	SECOND CHECK (IF NOT; -5 POINTS) SECOND DRAFT:	SUBMISSION (IF LATE FOR 2 DAYS; -10 POINTS) SUBMISSION:			



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