



2025–2026 ACADEMIC YEAR
GRADE 9 CHEMISTRY PROJECT

NAME OF THE PROJECT: FROM MENDELEEV TO MODERN: THE PERIODIC TABLE'S PATH

Grade	Content	Acquisition	Duration	Assessment
9	Students will create a 3D periodic table!	Explores the properties of the elements and does classification according to these properties.	Academic year	Research & 3D Model Rubric

GENERAL INSTRUCTIONS:

Just as the books in the library are arranged in a certain order, the elements are also classified by scientists in a certain order. In other words, many studies have been done to classify elements from past to present. As a result of these studies, the periodic system in which the elements are placed in a certain order has been developed.

The objective of this study is to discover the elements and their properties in the periodic table and to classify the elements according to their properties.

Your task has two parts. In the first part, you should do research about the history of the periodic table and write a report. In the second part, you will create a periodic table model based on your research.

Be creative!

(If you want, you can design a periodic table for the visually impaired.

If you want, you can design an alternative periodic table.)

Your designs must be three-dimensional.

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;

- Research**
- Research report**
- Creating 3D Periodic Table**
- Important Notes**



A. Research:

- Determine the subtitles
- Determine the references (At least 3 books should be determined as a reference! Not only internet!)

B. Research Report:

In this part, you will research the major contributors and significant discoveries that have impacted the atomic model in time and write a report by considering the following instructions below.

- In this section, you should include the development of the periodic table from past to present.
- Starting from the first periodic table, you should include the works and visuals of the scientists in your report.
- You may add interesting facts, other accomplishments and personal information about scientists, famous historical events at the time, etc.

C. Creating 3D Periodic Table:

In this part, using your research, you will design a 3D periodic table.

- Your design should be original and instructive.
- You must classify the elements into certain properties.
- You should give the periodic table a different perspective.
- You should use different materials.
- If you want, you can make a design for visually impaired individuals.
- If you want, you can design your own alternative periodic table.
- You must provide a title for your periodic table and include your name and section.
- You must complete this part before the deadline.

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 materials.

SECOND CHECK:

Complete your research report and model's framework.

Assessment criteria is attached.



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ACADEMIC YEAR 2025-2026

SCIENCE DEPARTMENT

RESEARCH & 3D MODEL 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	Cover paper.						
	Content, design of the title and foreword.						



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paper (30 points)	Page design. (Fonts, style)						
	Plan, introduction, body, conclusion.						
	Quotation, footnote, references.						
	Grammar, Labeling, Spelling.						.
Quality of the Model (45 points)	Relevancy of the model to grade level.						
	Explanation of the working principle of the model by the student.						
	Selecting appropriate materials and equipment. Originality of the materials and usage of recycled material.						
	Make comments on the method.						
	Creativity.						
	Effectiveness of model or its applications in solving problems.						
	Effort. (Number of trials, difficulty in process.)						



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	Draft drawings of the model.						
	Relevancy of the model to the aim.						
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:		
	DATE:	DATE:			DATE:		