



2024–2025 ACADEMIC YEAR
GRADE 9 CHEMISTRY PROJECT

NAME OF THE PROJECT: THE JOURNEY OF THE PERIODIC TABLE THROUGH TIME

Grade	Content	Acquisition	Duration	Assessment
9	Students will create a 3D periodic table!	Makes the properties of the elements and 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.

You should follow the following steps.

- A. **Research**
- B. **Research report**
- C. **Creating 3D Periodic Table**

A. Research:

- Determine the subtitles
- Determine the references (At least 3 books should be determined as a reference! Not only the 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.
- Your report should be written in Times New Roman, 12 font size.
- Sources must be cited, copying and pasting information directly from a web page is plagiarism. BE CAREFUL!

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 alternative periodic table.
- You must provide a title to your periodic table and include your name and section.
- You must complete this part before the deadline.

FIRST CHECK: (Planning)

Do your research and determine the materials.

SECOND CHECK:

Complete your research report and model's framework.

Assessment criteria are attached.



ACADEMIC YEAR 2024-2025

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.						



TED İSTANBUL KOLEJİ VAKFI ÖZEL LİSESİ

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.)						



**TED İSTANBUL KOLEJİ VAKFI
ÖZEL LİSESİ**

	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:		