



CHEMISTRY

Chapter 18

2nd

SECONDARY

**Taller: Jugando con el
“Dominó de elementos
Químicos”**



 **SACO OLIVEROS**

MOTIVATING STRATEGY





OBJETIVOS

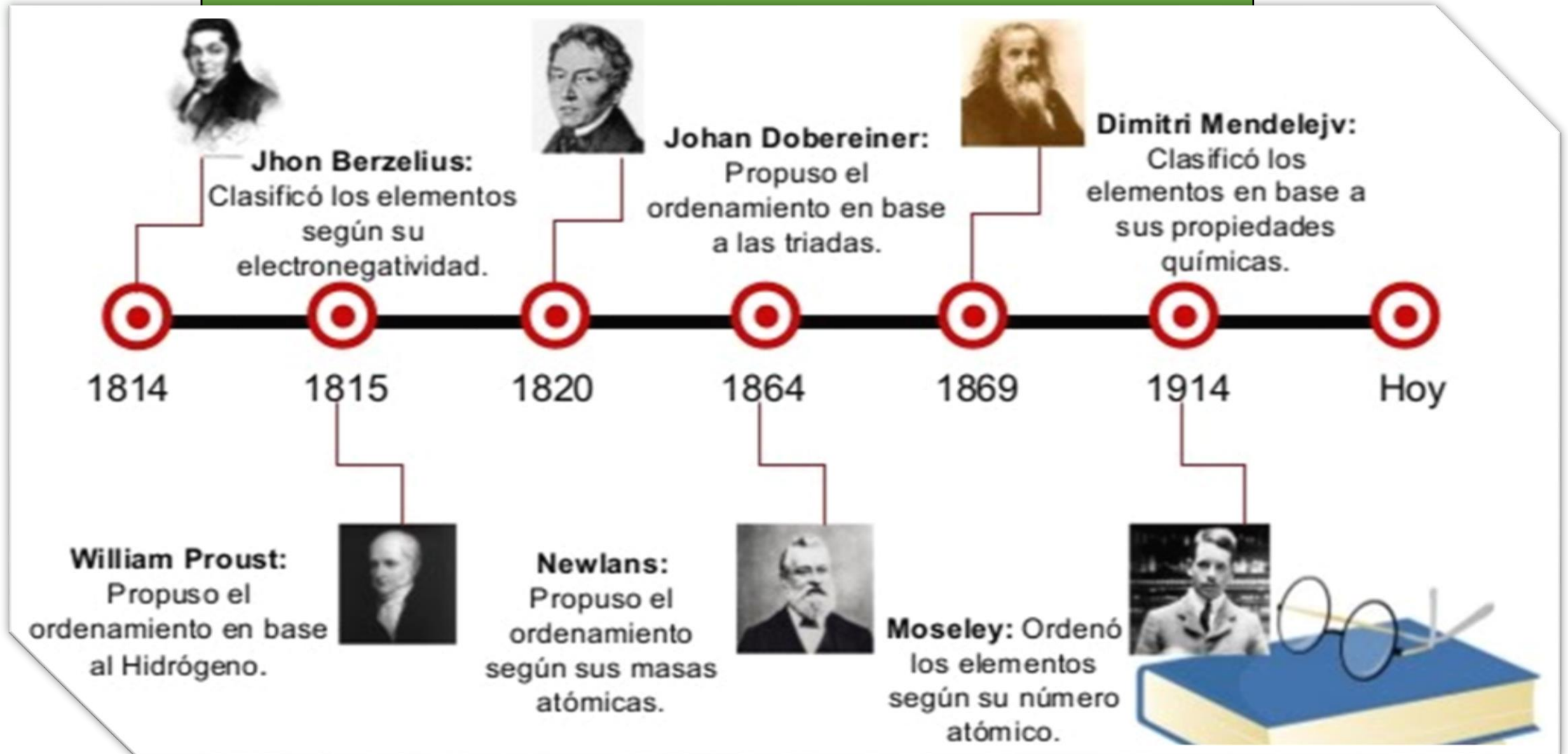
QUE EL ESTUDIANTES MEDIANTE JUEGOS LOGREN RECONOCER :



- ❖ Los símbolos de los elementos químicos.
- ❖ Propiedades de algunos elementos químicos.
- ❖ Las aplicaciones de los elementos químicos.



RESEÑA HISTÓRICA DE TABLA



PERIODIC TABLE of the ELEMENTS

DMITRI MENDELEYEV (1834 - 1907)

The Russian chemist, Dmitri Mendeleev, was the first to observe that if elements were listed in order of atomic mass, they showed regular (periodic) repeating properties. He formulated the periodic law: the properties of elements, when arranged in order of increasing atomic mass, are periodic functions of their atomic masses.

The resulting advancement of Mendeleev's periodic table lay in his prediction of their undiscovered elements. In 1869, the year he published his periodic classification, the elements gallium, germanium and scandium were unknown. Mendeleev left spaces for them in his table and even predicted their atomic masses and other chemical properties. Six years later, gallium was discovered with the predicted mass found to be accurate. Other elements followed and their chemical behavior confirmed that predicted by Mendeleev.

This remarkable man, who played a role in the history of science, has left the scientific community with a classification system as powerful as that which became the cornerstone of chemistry teaching and the prediction of new elements ever since. In 1955, however, 107 was named after him, P.M. Mendeleev.

SHUTTLEWORTH

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

1s 2s 2p 3s 3p 4s 4p 5s 5p 6s 6p 7s 7p

METODOLOGÍA

- 1) Se organizan para la elaboración de sus fichas de dominó.
- 2) En total son 118 fichas (5 cm por 10 cm de cartulina dúplex)
- 3) Cada estudiante escogerá su elemento favorito , con el cual se identifica por alguna característica de elemento químico .



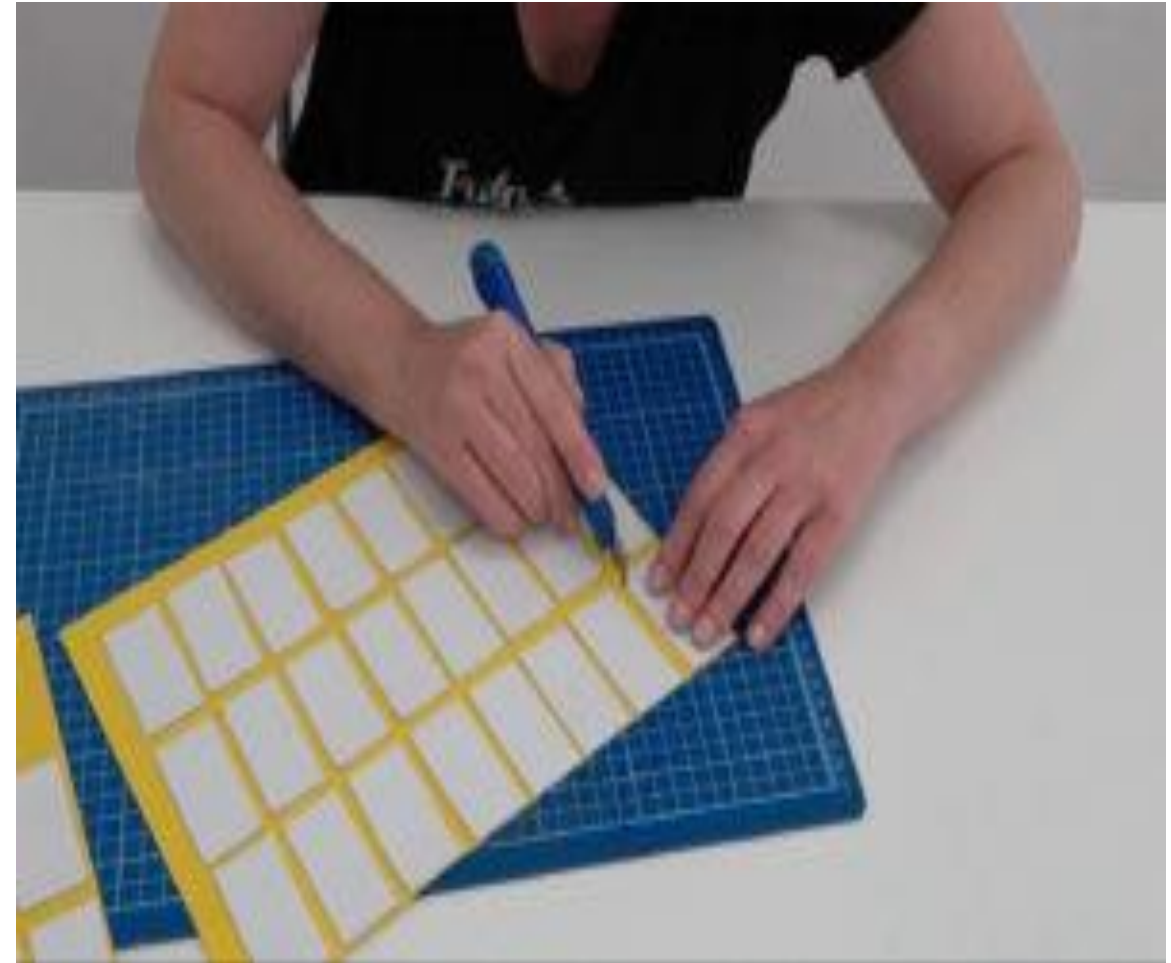
MATERIALES

- ☐ **Cartulina dúplex**
- ☐ **Goma**
- ☐ **Silicona**
- ☐ **Tijeras**
- ☐ **Plumones**



PROCEDIMIENTO

- ❖ CORTAR LA CARTULINA.
- ❖ DIBUJAR EL SÍMBOLO DEL ELEMENTO QUÍMICO.
- ❖ LOS ELEMENTOS DEL MISMO GRUPO TIENEN QUE TENER LOS MISMO COLORES PARA PODER RELACIONARLO.





EVALUACIÓN

- Se evaluará de manera individual el trabajo de cada estudiante.
- Se evaluará la creatividad y la forma como se desarrollo el trabajo.



CONCLUSION



- ✓ Los estudiantes se familiarizaron con los símbolos de los elementos.
- ✓ Los estudiantes reconocen las propiedades y las aplicaciones de los elementos químicos.
- ✓ Los estudiantes se identificaron con un elemento químico.