ARBETSÖVNING

The Discovery of the Periodic Table

Questions on the documentary ”Chemistry - A Volatile History - Part 2 - The Order Of The Elements”**.** The film is available at: <http://gsis.mediacore.tv/media/chemistry-a-volatile-history-part-2-the-order-of-t>**.** Focus on the first part of the film which concerns the discovery of the Periodic Table.[[1]](#footnote-1)

1. How did they men think that matter was composed 200 years ago? What did the scientists think about the number of elements? How did they think that the elements were organized?
2. Which was Dalton´s most important idea about the composition of matter?
3. Which was the main scientific goal for the Berzelius? What did he measure with such eagerness? How did he suggest that the elements should be organized?
4. Döbereiner suggested another way to organize the elements. Describe it!
5. What is meant by “triads” of elements?
6. Cannizzarro invented a new way to calculate weights of atoms. Describe it!
7. What is meant by ”the rule of octaves”? How was the idea behind this rule received when presented?
8. Why can Mendelejev’s work with finding the system for the Periodic Table be compared to the card game “patiens”.

1. How could Mendelejev predict that the element gallium existed before it was discovered?
2. How is the Periodic Table useful?

**Wordlist**

Matter - materia

Element + grundämne

volatile- instabil

perplex- förbrylla

glimpse- få en skymt av något

remarkable tale- anmärksvärd historia

reveal- avslöja

chemist - kemist

alchemist - någon som försöker köra guld, en alkemist

quest - sökande

conquer- övervinna

a grand plan- en storslagen plan

in all its glory- i all sin glans

nuclear physicist- kärnfysiker

the sub-atomic world- underatomvärld

building blocks- byggklossar

1. Samarbete kemi - engelska (Jenny Olander o Pia Nordman Williams på Danderyds gymnasium 2016) [↑](#footnote-ref-1)