

Historical Developments of Acids and Bases

Syllabus:

- outline the historical development of ideas about acids including those of:
 - Lavoisier
 - Davy
 - Arrhenius
- outline the Brønsted-Lowry theory of acids and bases
- describe the relationship between an acid and its conjugate base and a base and its conjugate acid.
- Identify conjugate acid/base pairs
- gather and process information from secondary sources to trace developments in understanding and describing acid/base reactions (**3rd column**)

Outcomes:

H1, H2

H14.1 (h) identify examples of the interconnectedness of ideas or scientific principles

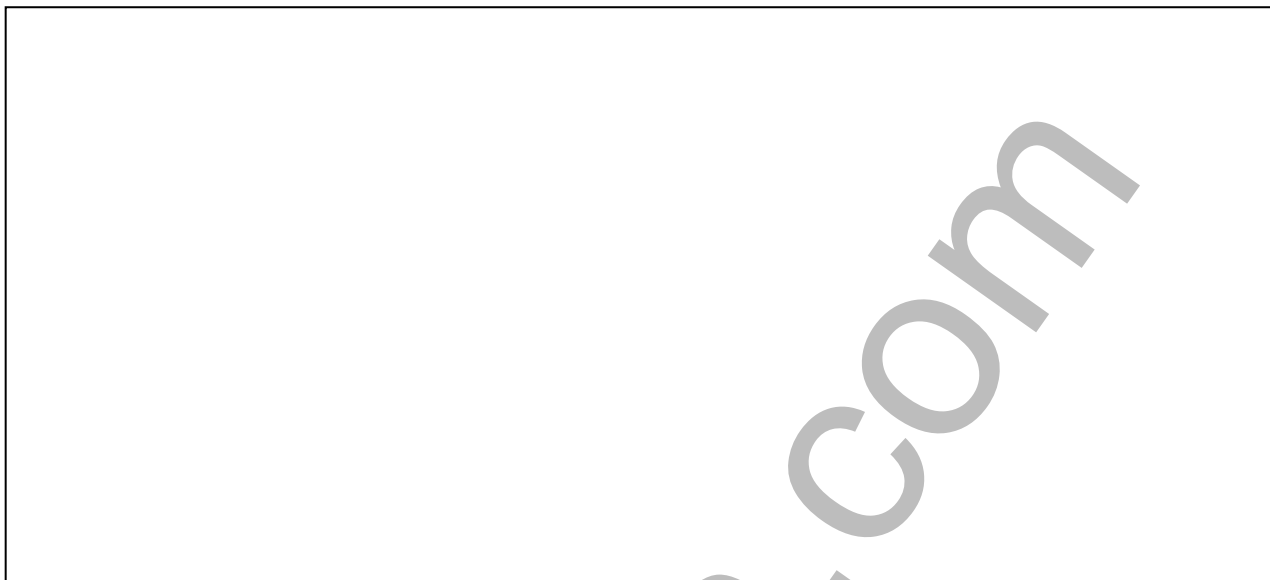
In the exercises below, use equations and examples where possible.

Outline the ideas of an acid proposed by Antoine Lavoisier in the 1780's

Outline the ideas of an acid proposed by Humphry Davy in 1815

Outline the ideas of an acid proposed by Svante Arrhenius in 1884.

Outline the ideas of an acid proposed by Johannes Brønsted and Thomas Lowry in 1923.
Show two examples of reactions that demonstrate conjugate acid/base pairs.



Outline the ideas of an acid proposed by G.N Lewis in the 1920's. (non syllabus)



Use the historical development of acid/base theories to demonstrate the interconnectedness of ideas or scientific principles

