



Átomos e Elementos

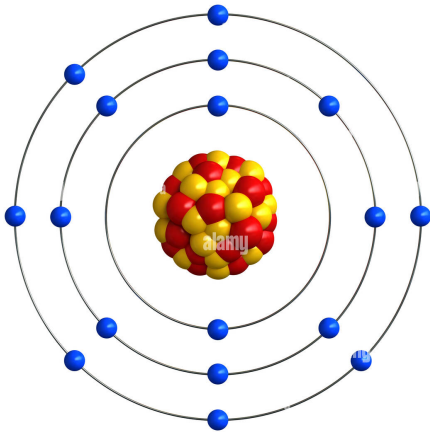
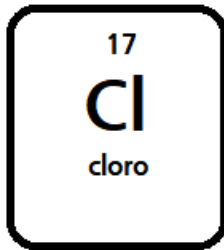
Prof Nati - 14/03/23

Parte I - Modelo atômico na prática

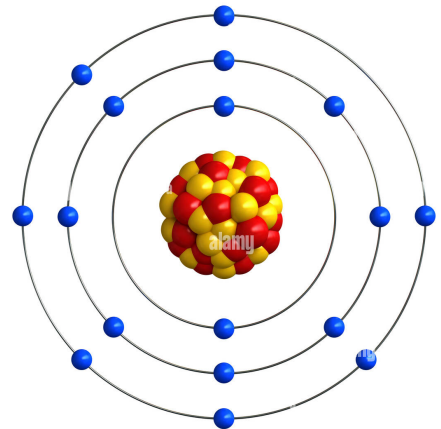
→ Qual modelo vamos usar?

Parte II - Elementos Químicos

→ Qual é a diferença entre átomo e elemento?



● 17 Protons ● 18 Neutrons ● 17 Electrons



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Fonte das imagens: <https://www.alamy.es/imagenes/estructura-at%C3%B3mica-de-cloro.html?sortBy=relevant>

Parte III - Isótopos

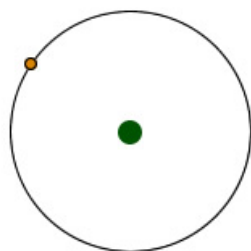
→ Por que os elementos possuem massa com números decimais?



Lista de conceitos

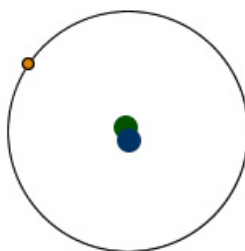
→ **Isótopo:**

Isótopos do Hidrogênio



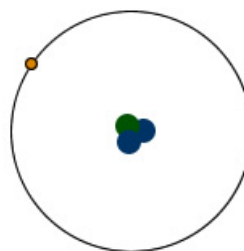
Prótio

1 próton



Deutério

1 próton
1 nêutron



Trítio

1 próton
2 nêutrons

Fonte da imagem: <https://www.infoescola.com/quimica/isotopos/>



ISÓTOPO:

ISÓTONO:

ISÓBARO:

ISOELETRÔNICO:



mesalvaoficial | mesalvamed



mesalva | mesalvamedicina



mesalvaoficial

mesalva.com/medicina

Parte IV - Alotropia

→ O que é?

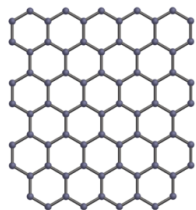


Lista de conceitos

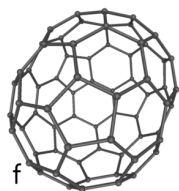
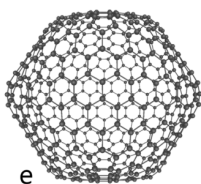
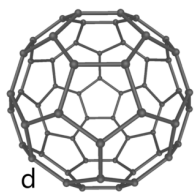
→ **Alotropia:**

Fonte da imagem: <https://aprovatotal.com.br/alotropia-o-que-e-exemplos-e-aplicacoes/>

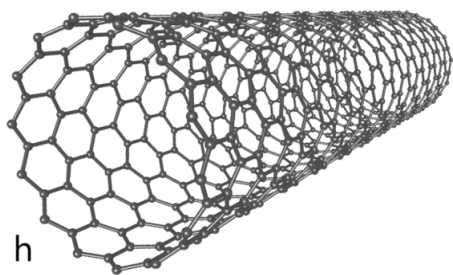
Alótropos artificiais do Carbono:



Grafeno

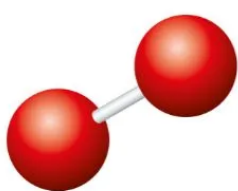


Fulerenos

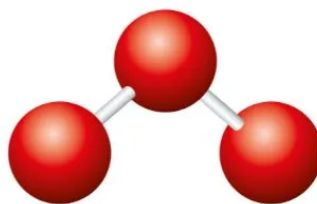


Nanotubo de carbono

Alotropia do Oxigênio



Gás oxigênio

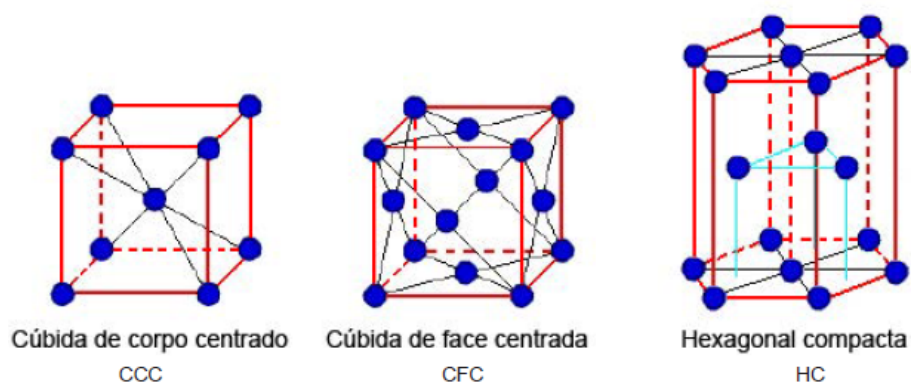
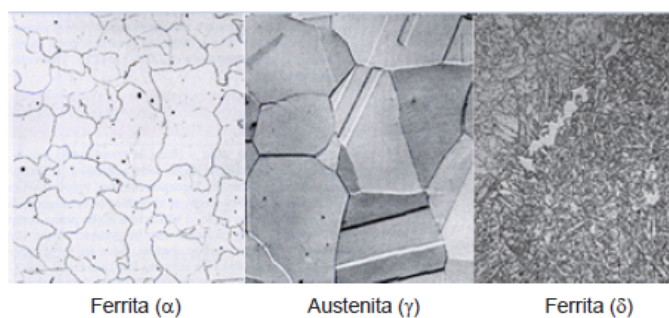
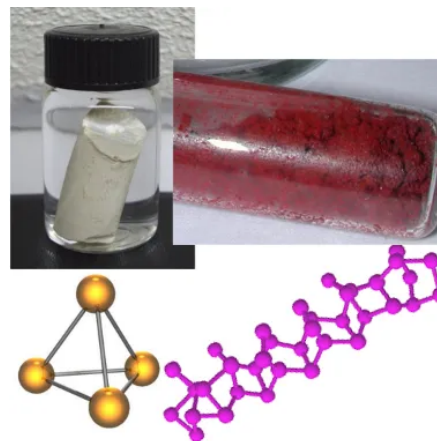
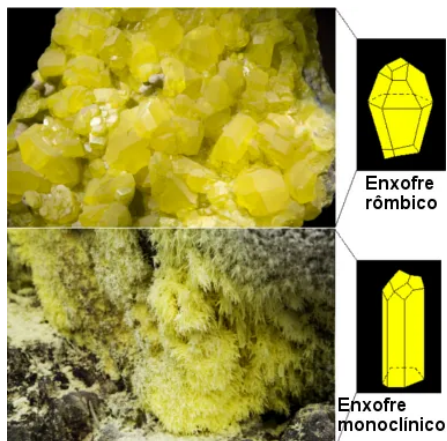


Ozônio



Fonte das imagens: <https://aprovatotal.com.br/alotropia-o-que-e-exemplos-e-aplicacoes/> e
<https://mundoeducacao.uol.com.br/quimica/alotropia.htm>

Alotropia em outros elementos



Fonte das imagens: <https://www.manualdaquimica.com/quimica-geral/alotropia.htm>
<https://www.teconconcursos.com.br/questoes/689698>