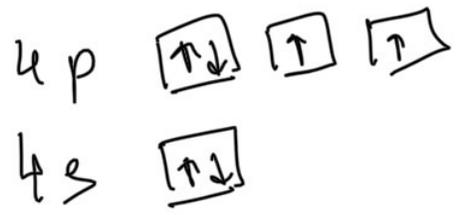
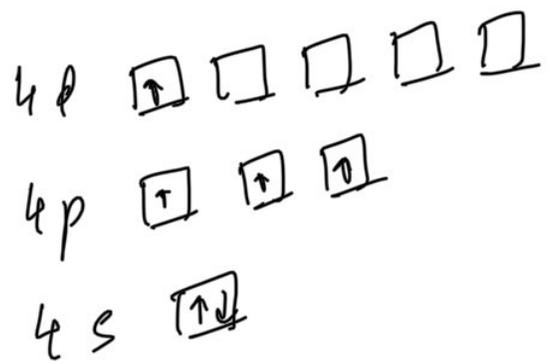


34 Se
ground
state

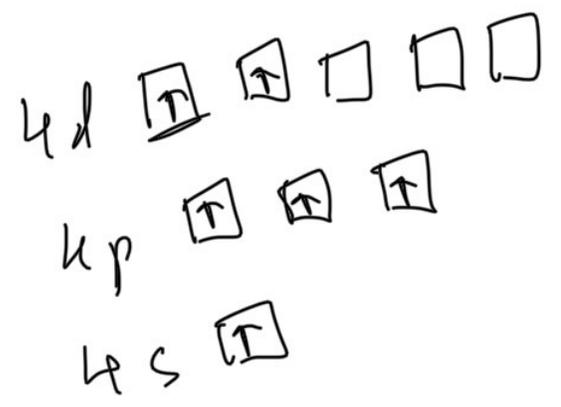


II

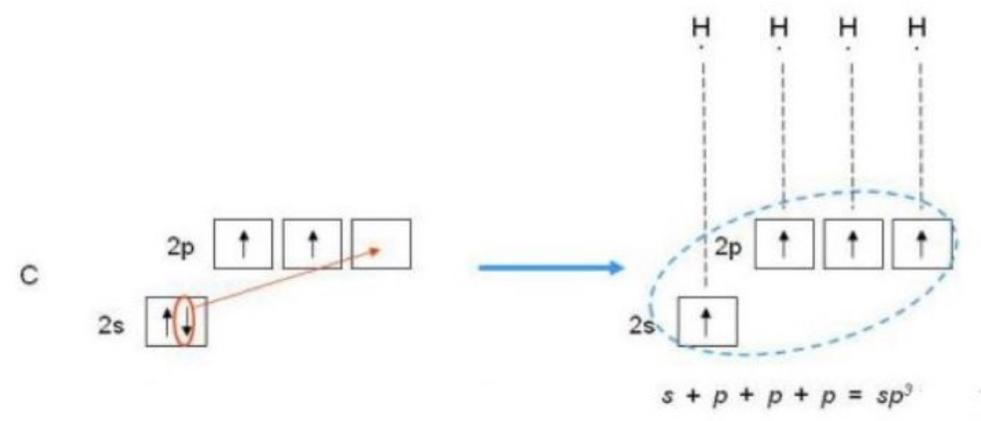
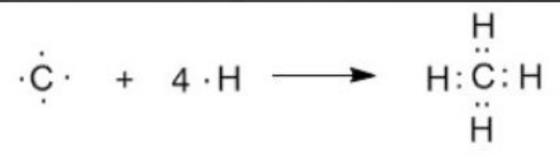
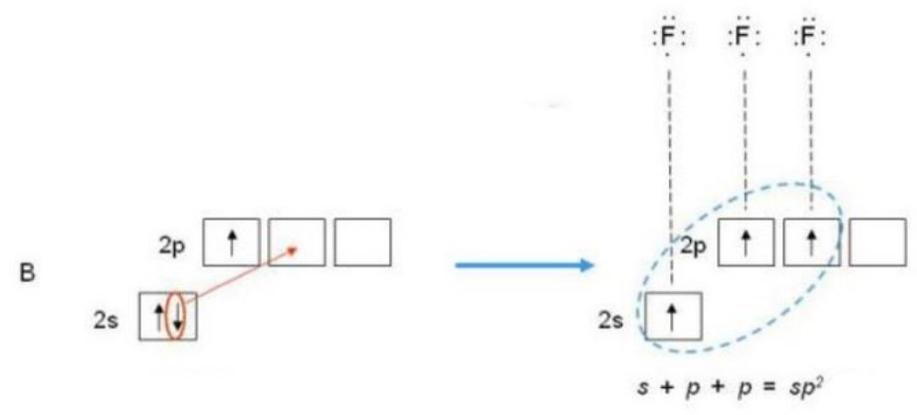
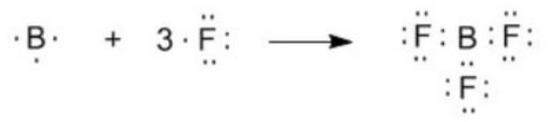
excited
states



IV



VI



This class uses the materials from the following books:

Larry Gonick and Graig Criddle “The cartoon guide to chemistry”

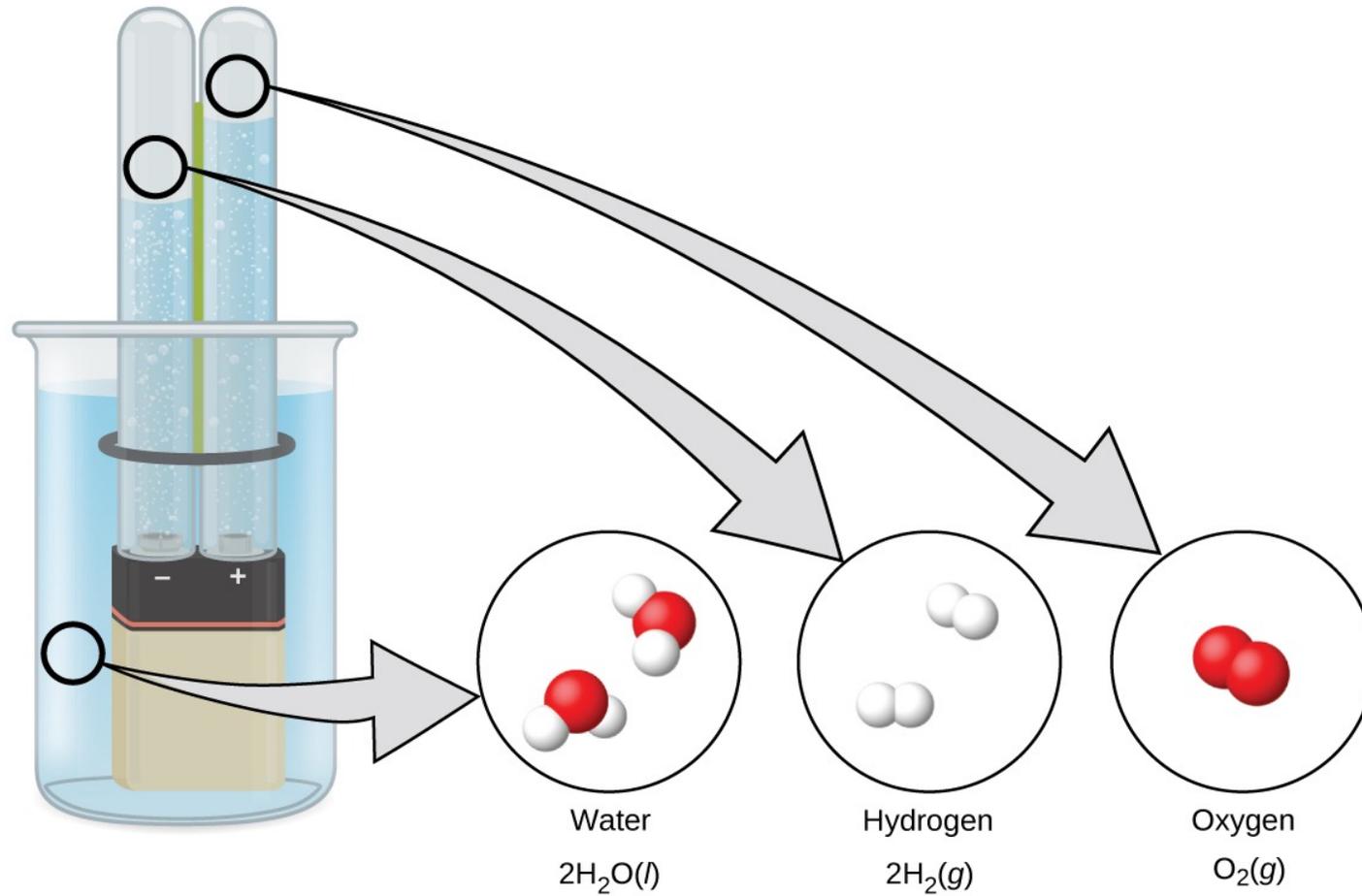
Manuilov and Rodionov “Chemistry for children and adults”
(Russian edition)

Steve Owen “Chemistry for the IB diploma”

Chris McMullen “Understand basic Chemistry concepts”

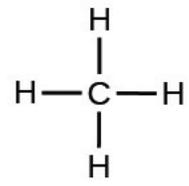
Very useful interactive periodic table:
<https://ptable.com/>

Electrolysis of water

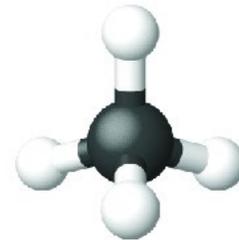




(a)



(b)



(c)

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LEWIS DOT STRUCTURES

Atoms	Electronic Configuration	Lewis Symbol
sodium	$[\text{Ne}]3s^1$	$\text{Na} \cdot$
magnesium	$[\text{Ne}]3s^2$	$\cdot\text{Mg}\cdot$
aluminum	$[\text{Ne}]3s^23p^1$	$\cdot\overset{\cdot}{\text{Al}}\cdot$
silicon	$[\text{Ne}]3s^23p^2$	$\cdot\overset{\cdot}{\underset{\cdot}{\text{Si}}}\cdot$
phosphorus	$[\text{Ne}]3s^23p^3$	$\cdot\overset{\cdot}{\underset{\cdot}{\underset{\cdot}{\text{P}}}}\cdot$
sulfur	$[\text{Ne}]3s^23p^4$	$\cdot\overset{\cdot}{\underset{\cdot}{\underset{\cdot}{\underset{\cdot}{\text{S}}}}}\cdot$
chlorine	$[\text{Ne}]3s^23p^5$	$\cdot\overset{\cdot}{\underset{\cdot}{\underset{\cdot}{\underset{\cdot}{\underset{\cdot}{\text{Cl}}}}}}\cdot$
argon	$[\text{Ne}]3s^23p^6$	$\cdot\overset{\cdot}{\underset{\cdot}{\underset{\cdot}{\underset{\cdot}{\underset{\cdot}{\underset{\cdot}{\text{Ar}}}}}}}\cdot$

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