Section 16.9 on Friday

The Washington Center
Internship Program. If you have any students that are interested or thinking about interning in our nation's capital, encourage them to attend one of the sessions. For more information on the program: www.twc.edu

Information Sessions:

Owl's Nest 1:30pm and 3:00pm

Sample Internships

TWC maintains a network of over 600 internship site partners that host hundreds of TWC interns every year. We place interns in all kinds of industries, from nonprofit, to government, to private sector, to the arts, and finance, and everything in-between. Your internship advisor will guide you through the decision process, and will help match you to the organization that's right for you.

This list is by no means exhaustive, but will give you an idea of the range of organizations you could potentially be matched to.





Arts, Humanities & Education

American Federation of School
Administrators • American Foundation
for Suicide Prevention • Catholic
Diocese of Arlington-Migration & Refugee
Services • Congressional Chorus •
International Leadership Association •
Joy of Motion Dance Center • National
Archive • National Association of
Federally Impacted Schools • Naval
History & Heritage Command •
Respectability • Special Olympics •
Student Veterans of America •
The Urban Institute • United Way
Worldwide • U.S. Department of
Education • Washington Performing Arts



Business, Economics & Trade

1776 • Brazilian Industries Coalition • Central Union Mission • Citigroup • D.C. Department of Small & Local Business Development • Foundation on Economic Trends • Institute on Taxation & Economic Policy • International Executive Service Corps • Izar Capital Group • Manchester Trade • Peru Trade, Tourism & Investment Office • Prep Factory • The Consumer Goods Forum • U.S. Department of Commerce • U.S. Small Business Administration



Government & Politics

American Security Project • Council of State Governments • Grant Thornton Kieloch Consulting • Lobbyit.com • National Hispanic Caucus of State Legislators • Running Start • S&P Global • The Abraham Group • The McKeon Group • The Potomac Advocates • U.S. Department of Energy U.S. House of Representatives • U.S. Senate • Whitmer & Worrall

Oxidation-Reduction Oxidation-Reduction $0 \times idation \# = 0$ $2 Mg + 0_2 \longrightarrow Mg 0$ e oxidized Mg lost 2e oxidation
reduced each · O atom gained 2e reduction reaction CHy +20z => CGz +2H20 red-ox

> 1

Oxidation #'s if they change, then a red-ox

TXN occure's For some compounds, the oxidation & is the charge of the Pretend notecular compounds/covalent bands are rouse bonds CH4 + 202 -> CO2 + 2 H20 Same energy

CH4 + 202 -> CO2 + 2 H20 O=0 -

Pretend bonds are conc if

eneg's are different

For each bond assign +1 or -1

based on eneg

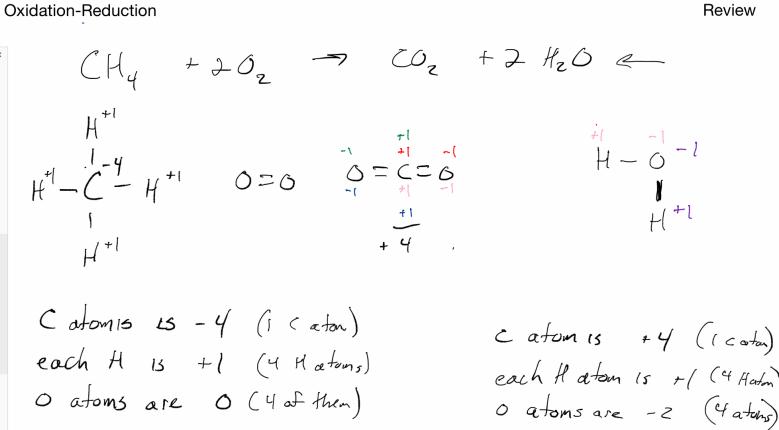
Sum all of the +1's + -1's for each

afon and you have the oxidation #

-(-1-1-1 < 15 -4

11 lonic "

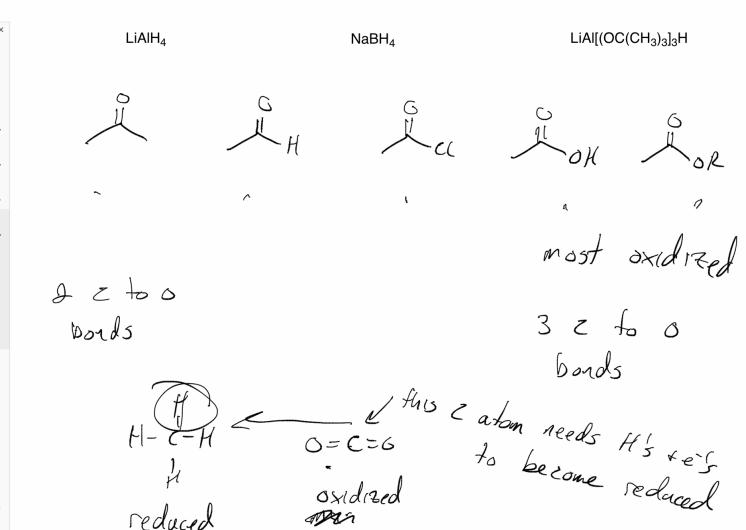
F, O, N = C(; - C = 5, H)



each Oaten got 2e-4 × 2e = (8e-) F, O, N≈C1; · C≈S, H

catom is +4 ((cotan)
each Hatom is +((4 Hatom)
0 atoms are -2 (4 atoms)
each O atom got 2e

4 × 2e = 8e



LiAIH4

[+(r] (-1-1-14)

+4 -4

craty reactive pyrophoric

(ess eneg more eneg HCl HBr (+> (-) NaBH₄
Me BH₄

H = H B - H

 $LiAI[(OC(CH_3)_3]_3H$

Li Al GC (CH3)3 +1 +3 BC (CH3)3 OC (CH3)3 HB

less reactive

all are sources of HO

less Nath More energy

"hydride ion" = H= = H:

Reactions with "Hydride" ions - Carbonyls Lacking a Leaving Group

Section 16.5

