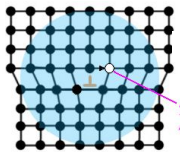


Guess What: The Inorganic Chemistry Version

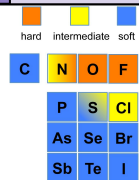
Topic Cards

Created by Jasmine N. Wolfgram and Bradley M. Wile, Ohio Northern University (b-wile@onu.edu) and posted on VIPER on 7/15/2022, Copyright Jasmine N. Wolfgram 2022. Full details of this activity (including implementation notes and discussion) may be found at <https://www.ionicviper.org/class-activity/guess-what-inorganic-chemistry-board-game> This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License. View at <http://creativecommons.org/about/license/>

26 Edge Dislocations



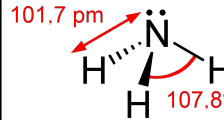
16 Hard/Soft Acid/Base (HSAB) Theory



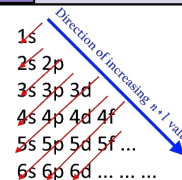
10 "King" Fluorine



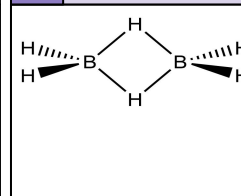
17 Ammonia (NH₃)



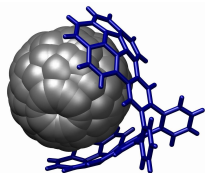
13 Aufbau Principle



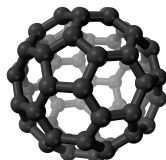
18 Borane



24 Buckycatcher



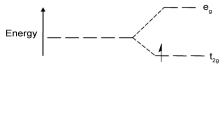
25 C₆₀ Buckminsterfullerene



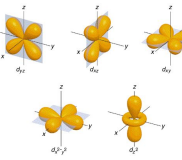
33 Carbon Monoxide (CO)



6 Crystal Field Theory (CFT)



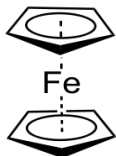
21 D-Orbital



29 Emerald



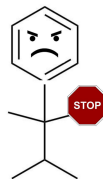
49 Ferrocene



27 Frontier Orbitals



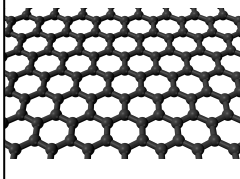
28 Frustrated Lewis Pairs



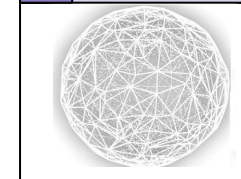
37 George Olah



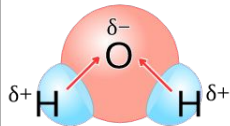
45 Graphene



5 Group Theory



4 H₂O



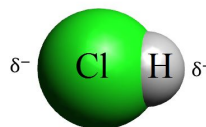
12 Heisenberg Uncertainty Principle



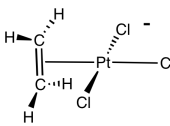
11 Werner Heisenberg



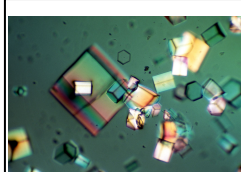
32 Heteronuclear Diatomic Orbitals


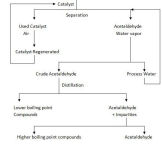
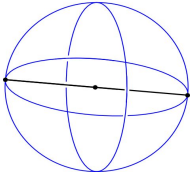
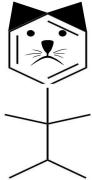
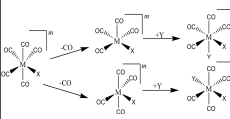
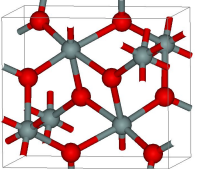
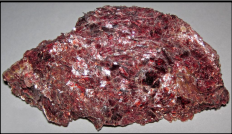
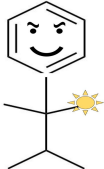
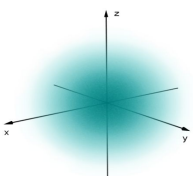


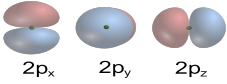
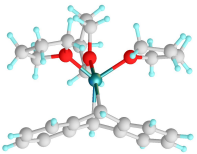
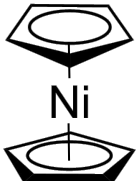

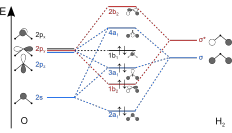
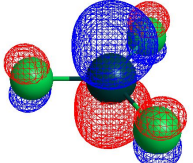

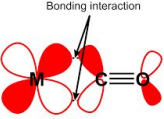


42 Zeise's Salt



46 X-ray Crystallography



<p>48 Werner's Coordination Theory</p>	<p>41 Wacker Process</p>	<p>2 VSEPR</p>	<p>22 Usanovich Acid/Base Theory</p>	<p>40 Superbases</p>	<p>8 Substitution Reactions</p>
				<p><chem>c1ccccc1[Mg]Br</chem></p> <p>ex. Grignard reagent</p>	
<p>39 Strong Field Ligands</p>	<p>47 Silicon dioxide (<chem>SiO2</chem>)</p>	<p>30 Silicates</p>	<p>1 Ronald James Gillespie</p>	<p>19 S-Orbital</p>	<p>50 Phosphorus</p>
<p><chem>C#N</chem></p> <p>ex. cyanide ion</p>					
<p>14 Pauli Exclusion Principle</p>	<p>20 P-Orbital</p>	<p>38 Organometallic Chemistry</p>	<p>36 Nickelocene</p>	<p>35 Montmorillonites</p>	<p>9 Molecular Orbital Theory</p>
					
<p>43 Lowest Unoccupied Molecular Orbital (LUMO)</p>	<p>7 Linus Pauling</p>	<p>8 Ligand Field Theory</p>	<p>15 Hund's Rule</p>	<p>23 Ingold-Robinson Acid/Base Theory</p>	<p>31 L-type Ligand</p>
		<p>Bonding interaction</p>  <p>Filled metal d_{xy} orbitals Empty ligand π^* orbital (LUMO)</p>	