

Name:

Period:

Date:

NOVA: Hunting the Elements

Part 1: Quest for Gold; Sound of Bronze; Atomic Zoom; the Periodic Table; Explosively Reactive (1 hr)

Video at: <http://www.pbs.org/wgbh/nova/physics/hunting-elements.html>

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|--------|-------------|--------|---------------------------|--------|-------------|--------|-------------|--------|-----------|--------|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <p>Color in these groups:</p> <table border="0"> <tr> <td>noble metals</td><td>gold</td></tr> <tr> <td>noble gases</td><td>purple</td></tr> <tr> <td>elements of life (CHNOPS)</td><td>green</td></tr> <tr> <td>rare earths</td><td>blue</td></tr> <tr> <td>radioactive</td><td>red</td></tr> <tr> <td>synthetic</td><td>gray</td></tr> </table> | | | | | | | | | | | | | | | | | | noble metals | gold | noble gases | purple | elements of life (CHNOPS) | green | rare earths | blue | radioactive | red | synthetic | gray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| noble metals | gold | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| noble gases | purple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| elements of life (CHNOPS) | green | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| rare earths | blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| radioactive | red | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| synthetic | gray | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>H</td><td>He</td><td>Li</td><td>Be</td><td>Na</td><td>Mg</td><td>K</td><td>Ca</td><td>Rb</td><td>Sr</td><td>Cs</td><td>Ba</td><td>Fr</td><td>Ra</td><td>Sc</td><td>Ti</td><td>V</td><td>Cr</td><td>Mn</td><td>Fe</td><td>Co</td><td>Ni</td><td>Cu</td><td>Zn</td><td>Al</td><td>C</td><td>N</td><td>O</td><td>F</td><td>He</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>1.008</td><td>4.003</td><td>6.941</td><td>9.012</td><td>12.011</td><td>13.013</td><td>19.992</td><td>20.183</td><td>22.018</td><td>24.312</td><td>24.312</td><td>25.000</td><td>25.000</td><td>25.000</td><td>26.982</td><td>27.986</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td></tr> <tr><td>1.008</td><td>4.003</td><td>6.941</td><td>9.012</td><td>12.011</td><td>13.013</td><td>19.992</td><td>20.183</td><td>22.018</td><td>24.312</td><td>24.312</td><td>25.000</td><td>25.000</td><td>25.000</td><td>26.982</td><td>27.986</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td><td>28.980</td></tr> </table> | | | | | | | | | | | | | | | | | | H | He | Li | Be | Na | Mg | K | Ca | Rb | Sr | Cs | Ba | Fr | Ra | Sc | Ti | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Al | C | N | O | F | He | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 1.008 | 4.003 | 6.941 | 9.012 | 12.011 | 13.013 | 19.992 | 20.183 | 22.018 | 24.312 | 24.312 | 25.000 | 25.000 | 25.000 | 26.982 | 27.986 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 1.008 | 4.003 | 6.941 | 9.012 | 12.011 | 13.013 | 19.992 | 20.183 | 22.018 | 24.312 | 24.312 | 25.000 | 25.000 | 25.000 | 26.982 | 27.986 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 |
| H | He | Li | Be | Na | Mg | K | Ca | Rb | Sr | Cs | Ba | Fr | Ra | Sc | Ti | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Al | C | N | O | F | He | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.008 | 4.003 | 6.941 | 9.012 | 12.011 | 13.013 | 19.992 | 20.183 | 22.018 | 24.312 | 24.312 | 25.000 | 25.000 | 25.000 | 26.982 | 27.986 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.008 | 4.003 | 6.941 | 9.012 | 12.011 | 13.013 | 19.992 | 20.183 | 22.018 | 24.312 | 24.312 | 25.000 | 25.000 | 25.000 | 26.982 | 27.986 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | 28.980 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Y</td><td>Zr</td><td>Nb</td><td>Mo</td><td>Tc</td><td>Ru</td><td>Rh</td><td>Pd</td><td>Ag</td><td>Cd</td><td>In</td><td>Sn</td><td>Sb</td><td>Te</td><td>I</td><td>Xe</td><td>Cl</td><td>Ar</td></tr> <tr><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td></tr> <tr><td>88.905</td><td>91.244</td><td>91.965</td><td>95.940</td><td>98.906</td><td>101.074</td><td>103.903</td><td>106.905</td><td>107.905</td><td>112.411</td><td>114.818</td><td>118.710</td><td>121.765</td><td>124.898</td><td>127.632</td><td>131.902</td><td>132.905</td><td>133.902</td></tr> <tr><td>88.905</td><td>91.244</td><td>91.965</td><td>95.940</td><td>98.906</td><td>101.074</td><td>103.903</td><td>106.905</td><td>107.905</td><td>112.411</td><td>114.818</td><td>118.710</td><td>121.765</td><td>124.898</td><td>127.632</td><td>131.902</td><td>132.905</td><td>133.902</td></tr> </table> | | | | | | | | | | | | | | | | | | Y | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn | Sb | Te | I | Xe | Cl | Ar | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 88.905 | 91.244 | 91.965 | 95.940 | 98.906 | 101.074 | 103.903 | 106.905 | 107.905 | 112.411 | 114.818 | 118.710 | 121.765 | 124.898 | 127.632 | 131.902 | 132.905 | 133.902 | 88.905 | 91.244 | 91.965 | 95.940 | 98.906 | 101.074 | 103.903 | 106.905 | 107.905 | 112.411 | 114.818 | 118.710 | 121.765 | 124.898 | 127.632 | 131.902 | 132.905 | 133.902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Y | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn | Sb | Te | I | Xe | Cl | Ar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88.905 | 91.244 | 91.965 | 95.940 | 98.906 | 101.074 | 103.903 | 106.905 | 107.905 | 112.411 | 114.818 | 118.710 | 121.765 | 124.898 | 127.632 | 131.902 | 132.905 | 133.902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88.905 | 91.244 | 91.965 | 95.940 | 98.906 | 101.074 | 103.903 | 106.905 | 107.905 | 112.411 | 114.818 | 118.710 | 121.765 | 124.898 | 127.632 | 131.902 | 132.905 | 133.902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>Lu</td><td>Hf</td><td>Ta</td><td>W</td><td>Re</td><td>Os</td><td>Ir</td><td>Pt</td><td>Au</td><td>Hg</td><td>Tl</td><td>Pb</td><td>Bi</td><td>Po</td><td>At</td><td>Rn</td><td>Uuo</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td></tr> <tr><td>174.967</td><td>178.490</td><td>180.905</td><td>183.840</td><td>186.207</td><td>189.904</td><td>192.903</td><td>195.904</td><td>197.905</td><td>199.904</td><td>201.902</td><td>203.902</td><td>205.902</td><td>207.902</td><td>209.902</td><td>210.902</td><td>211.902</td></tr> <tr><td>174.967</td><td>178.490</td><td>180.905</td><td>183.840</td><td>186.207</td><td>189.904</td><td>192.903</td><td>195.904</td><td>197.905</td><td>199.904</td><td>201.902</td><td>203.902</td><td>205.902</td><td>207.902</td><td>209.902</td><td>210.902</td><td>211.902</td></tr> </table> | | | | | | | | | | | | | | | | | | Lu | Hf | Ta | W | Re | Os | Ir | Pt | Au | Hg | Tl | Pb | Bi | Po | At | Rn | Uuo | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 174.967 | 178.490 | 180.905 | 183.840 | 186.207 | 189.904 | 192.903 | 195.904 | 197.905 | 199.904 | 201.902 | 203.902 | 205.902 | 207.902 | 209.902 | 210.902 | 211.902 | 174.967 | 178.490 | 180.905 | 183.840 | 186.207 | 189.904 | 192.903 | 195.904 | 197.905 | 199.904 | 201.902 | 203.902 | 205.902 | 207.902 | 209.902 | 210.902 | 211.902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lu | Hf | Ta | W | Re | Os | Ir | Pt | Au | Hg | Tl | Pb | Bi | Po | At | Rn | Uuo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 174.967 | 178.490 | 180.905 | 183.840 | 186.207 | 189.904 | 192.903 | 195.904 | 197.905 | 199.904 | 201.902 | 203.902 | 205.902 | 207.902 | 209.902 | 210.902 | 211.902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 174.967 | 178.490 | 180.905 | 183.840 | 186.207 | 189.904 | 192.903 | 195.904 | 197.905 | 199.904 | 201.902 | 203.902 | 205.902 | 207.902 | 209.902 | 210.902 | 211.902 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr><td>La</td><td>Ce</td><td>Pr</td><td>Nd</td><td>Pm</td><td>Sm</td><td>Eu</td><td>Gd</td><td>Tb</td><td>Dy</td><td>Ho</td><td>Er</td><td>Tm</td><td>Yb</td><td>Lu</td><td>He</td><td>Ne</td><td>Ar</td></tr> <tr><td>57</td><td>58</td><td>59</td><td>60</td><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td><td>71</td><td>72</td><td>73</td><td>74</td></tr> <tr><td>138.91</td><td>140.12</td><td>141.00</td><td>142.01</td><td>144.24</td><td>145.94</td><td>147.90</td><td>148.91</td><td>150.90</td><td>151.96</td><td>152.91</td><td>154.90</td><td>156.90</td><td>158.90</td><td>159.90</td><td>160.90</td><td>161.90</td><td>162.90</td></tr> <tr><td>138.91</td><td>140.12</td><td>141.00</td><td>142.01</td><td>144.24</td><td>145.94</td><td>147.90</td><td>148.91</td><td>150.90</td><td>151.96</td><td>152.91</td><td>154.90</td><td>156.90</td><td>158.90</td><td>159.90</td><td>160.90</td><td>161.90</td><td>162.90</td></tr> </table> | | | | | | | | | | | | | | | | | | La | Ce | Pr | Nd | Pm | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | He | Ne | Ar | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 138.91 | 140.12 | 141.00 | 142.01 | 144.24 | 145.94 | 147.90 | 148.91 | 150.90 | 151.96 | 152.91 | 154.90 | 156.90 | 158.90 | 159.90 | 160.90 | 161.90 | 162.90 | 138.91 | 140.12 | 141.00 | 142.01 | 144.24 | 145.94 | 147.90 | 148.91 | 150.90 | 151.96 | 152.91 | 154.90 | 156.90 | 158.90 | 159.90 | 160.90 | 161.90 | 162.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| La | Ce | Pr | Nd | Pm | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | Lu | He | Ne | Ar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138.91 | 140.12 | 141.00 | 142.01 | 144.24 | 145.94 | 147.90 | 148.91 | 150.90 | 151.96 | 152.91 | 154.90 | 156.90 | 158.90 | 159.90 | 160.90 | 161.90 | 162.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Gold - Au

1. Write the number of subatomic particles in gold:

Protons:

Electrons:

Factoid: All the gold ever mined since ancient times would fit into a cube 60 feet on a side.

2. Give one property of gold.

What does "luster" mean?

Factoid: At the Cortez mine in Nevada, each truck holds 400 tons. Each ton of rock contains about one ounce of gold. At \$1,800/oz, that works out to \$720,000/truck.

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