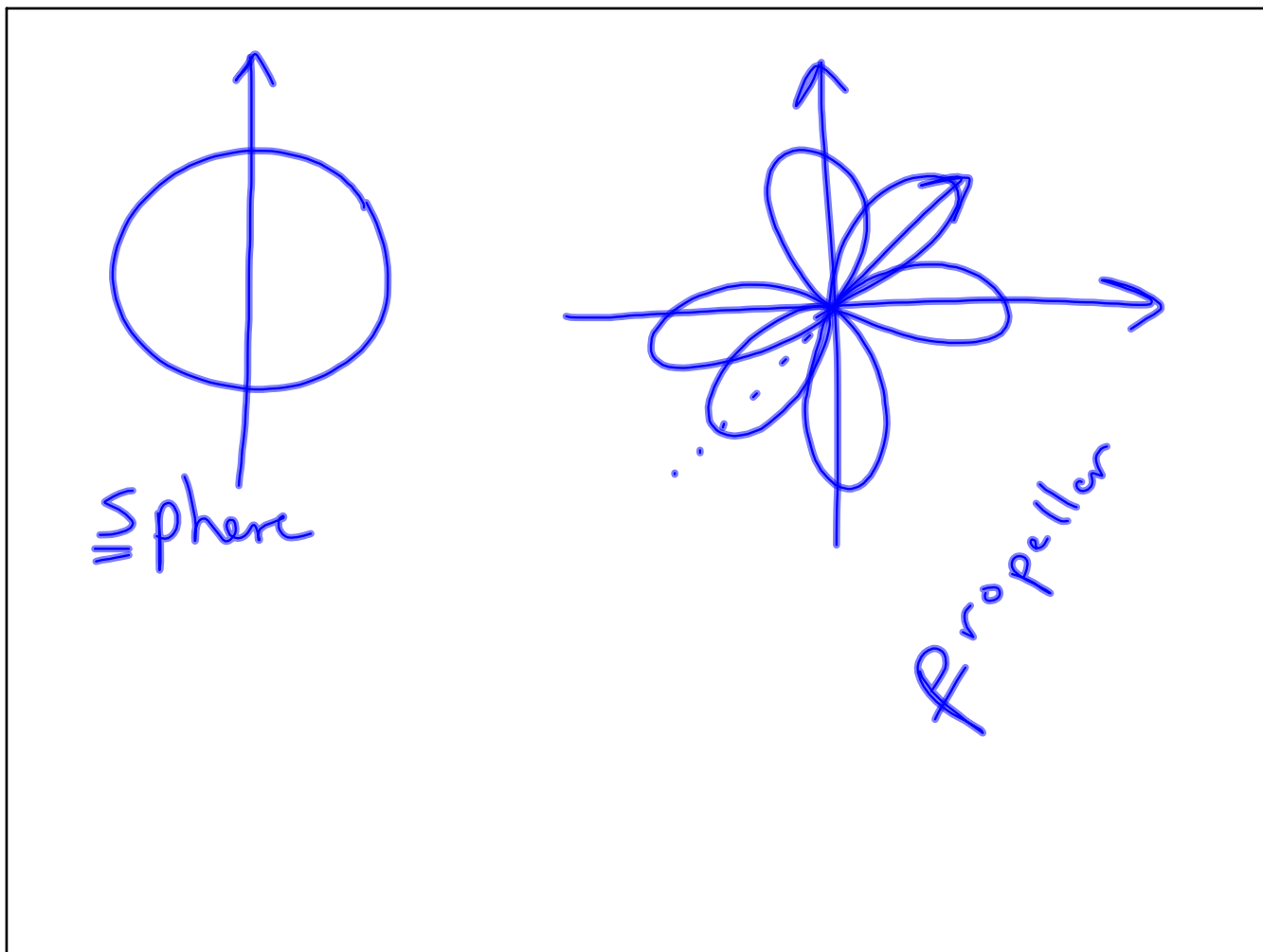


$c = \lambda \cdot \nu$
 speed of light [m/s] wavelength [m] frequency [Hz]

$\nu = \frac{c}{\lambda}$

$\lambda = \frac{c}{\nu}$

$\nu = 4.1$
 $\nu = 2.2$



Periodic Table of the Elements

The periodic table is color-coded by groups and categories. The legend includes:

- Alkali Metals:** Pink
- Alkali-Earth Metals:** Light Green
- Transition Metals:** Yellow
- Lanthanides:** Orange
- Actinides:** Red
- Poor Metals:** Light Blue
- Semi Metals:** Purple
- Non-Metals:** Dark Blue
- Noble Gases:** Yellow

The main table shows elements 1 through 118, with rows numbered 1 to 7 on the left. The lanthanide and actinide series are shown in an inset at the bottom, with elements 57-71 and 89-103 respectively.

1	Periodic Table of the Elements																18																																																																																											
1	H																	He																																																																																										
2	Li	Be											B	C	N	O	F	Ne																																																																																										
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4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr																																																																																										
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe																																																																																										
6	Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn																																																																																										
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		<table border="1"> <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> </tr> <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> </tr> <tr> <td colspan="15">Lanthanides</td> </tr> <tr> <td>89</td><td>90</td><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td><td>101</td><td>102</td><td>103</td> </tr> <tr> <td>Ac</td><td>Th</td><td>Pa</td><td>U</td><td>Np</td><td>Pu</td><td>Am</td><td>Cm</td><td>Bk</td><td>Cf</td><td>Es</td><td>Fm</td><td>Mendelevium</td><td>Nobelium</td><td>Lawrencium</td> </tr> <tr> <td colspan="15">Actinides</td> </tr> </table>																	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Lanthanides															89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Mendelevium	Nobelium	Lawrencium	Actinides														
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Layers of Learning

Periodic Table of the Elements

Legend:

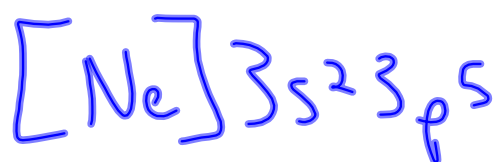
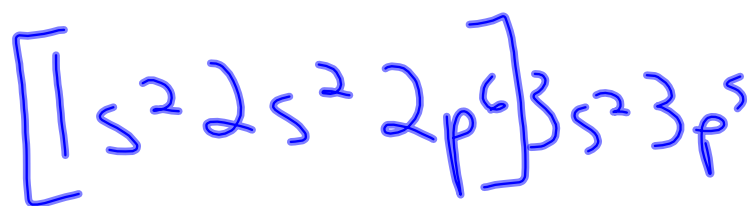
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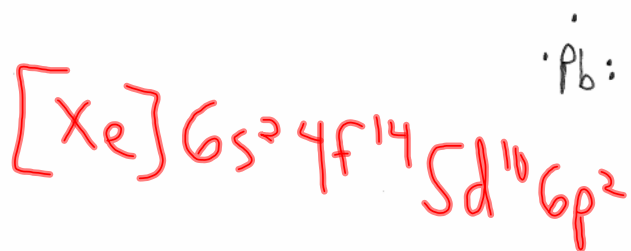
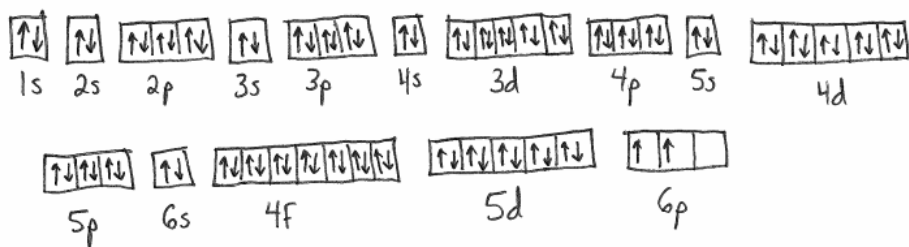
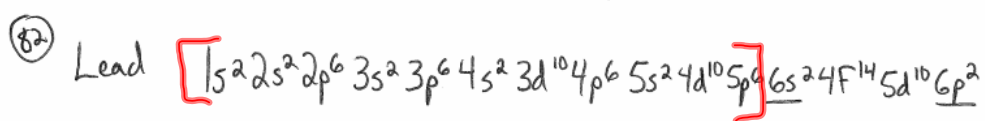
Handwritten Annotations:

- Blue numbers 1-7 on the left side of the table.
- Red circles around elements: H, Li, Na, K, Rb, Cs, Fr, Ca, Sr, Ba, Ra, and Re.
- Red arrow pointing from the 'f' block to the text: "Skip #5 After 'f' skip arrow diagrams".

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Skip #5
After 'f'
skip arrow
diagrams





The flame melts the wax, the liquid wax is drawn up the wick by capillary action, the wax vapor feeds the flame