

NOTES # 2
Inductive and Deductive Reasoning

Name: _____

Period: _____

	Definition	Examples															
Inductive Reasoning	<i>Making generalizations based upon observed patterns</i>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">x</th> <th style="text-align: center;">y</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">7</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">x</td> <td style="text-align: center;">2x + 1</td> </tr> </tbody> </table>	x	y	0	1	1	3	2	5	3	7	4	9	x	2x + 1	
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Deductive Reasoning	<i>Logical thinking based upon a set of given information or agreed upon assumptions</i>	<ul style="list-style-type: none"> • If it is sunny, I will ride my bike • It is sunny • ??? <p style="text-align: center;">I will ride my bike</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Guess</th> <th style="text-align: center;">Digit</th> <th style="text-align: center;">Place</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">357</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">645</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">425</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">265</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> </tbody> </table>	Guess	Digit	Place	357	1	0	645	2	1	425	2	1	265	3	3
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