

















Digital Logic – Introduction How to Encode Numbers: Binary Numbers				
<ul> <li>Working with binary numbers</li> </ul>		10 <sup>3</sup> 1	0 <sup>2</sup> 10 <sup>1</sup>	10 <sup>0</sup>
<ul> <li>In base ten, helps to know powers of 10         <ul> <li>one, ten, hundred, thousand, ten thousand,</li> </ul> </li> </ul>		1000 10	00 10	1
<ul> <li>In base two, helps to know powers of 2</li> </ul>				
<ul> <li>one, two, four, eight, sixteen, thirty two, sixty four, one hundred twenty eight</li> </ul>	2 <sup>9</sup> 2 <sup>8</sup> 2 <sup>7</sup> 2 <sup>6</sup> 2 <sup>5</sup>	2 <sup>4</sup> 2 <sup>3</sup> 2	2 <sup>2</sup> 2 <sup>1</sup>	20
<ul> <li>(Note: unlike base ten, we don't have common names, like "thousand," for each position in base ten so we use the base ten name)</li> </ul>	512 256 128 64 32	16 8 4	2	1
				10

















