

# Nodes in orbitals

Radial Probability Functions	Number of radial nodes (spherical nodes) ( $=n-l-1$ )	Number of angular nodes	Total number of nodes
<p style="text-align: center;">1s</p>	$1 - 0 - 1 = 0$	0	0
<p style="text-align: center;">2s</p>	$2 - 0 - 1 = 1$	0	1
<p style="text-align: center;">2p</p>	$2 - 1 - 1 = 0$	1	1
<p style="text-align: center;">3s</p>	$3 - 0 - 1 = 2$	0	2
<p style="text-align: center;">3p</p>	$3 - 1 - 1 = 1$	1	2
<p style="text-align: center;">3d</p>	$3 - 2 - 1 = 0$	2	2