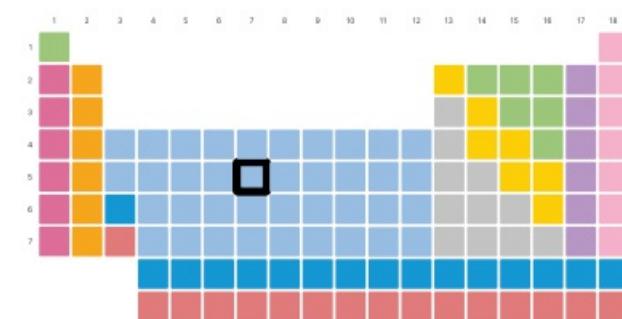


# Technetium

## Transition Metal



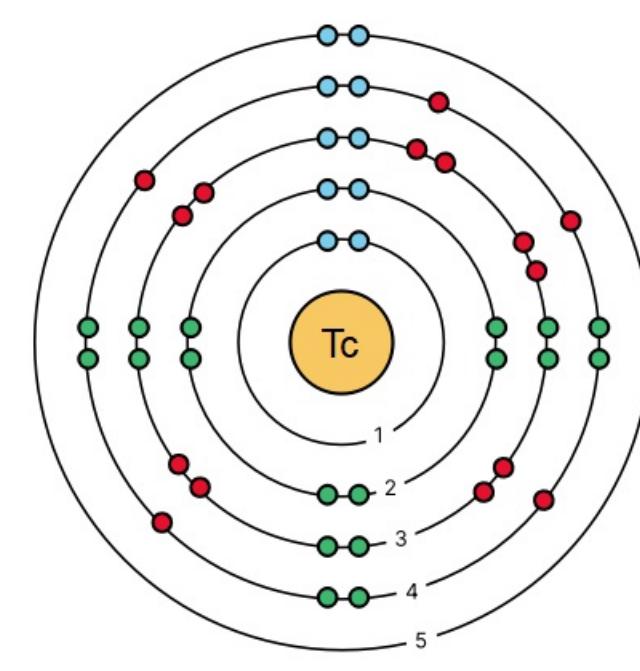
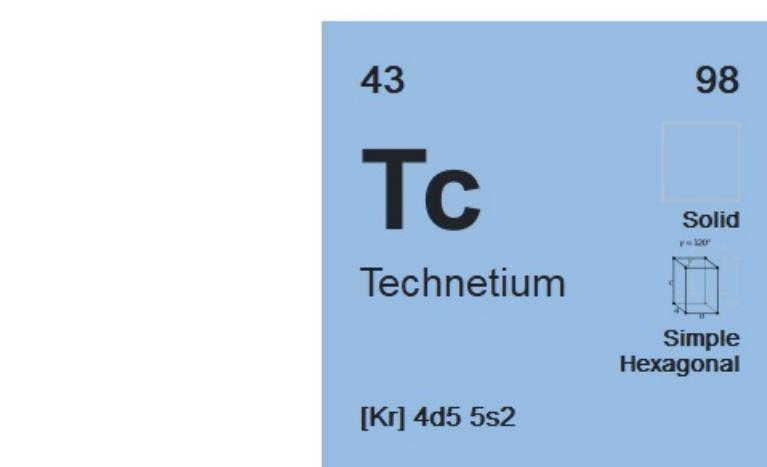
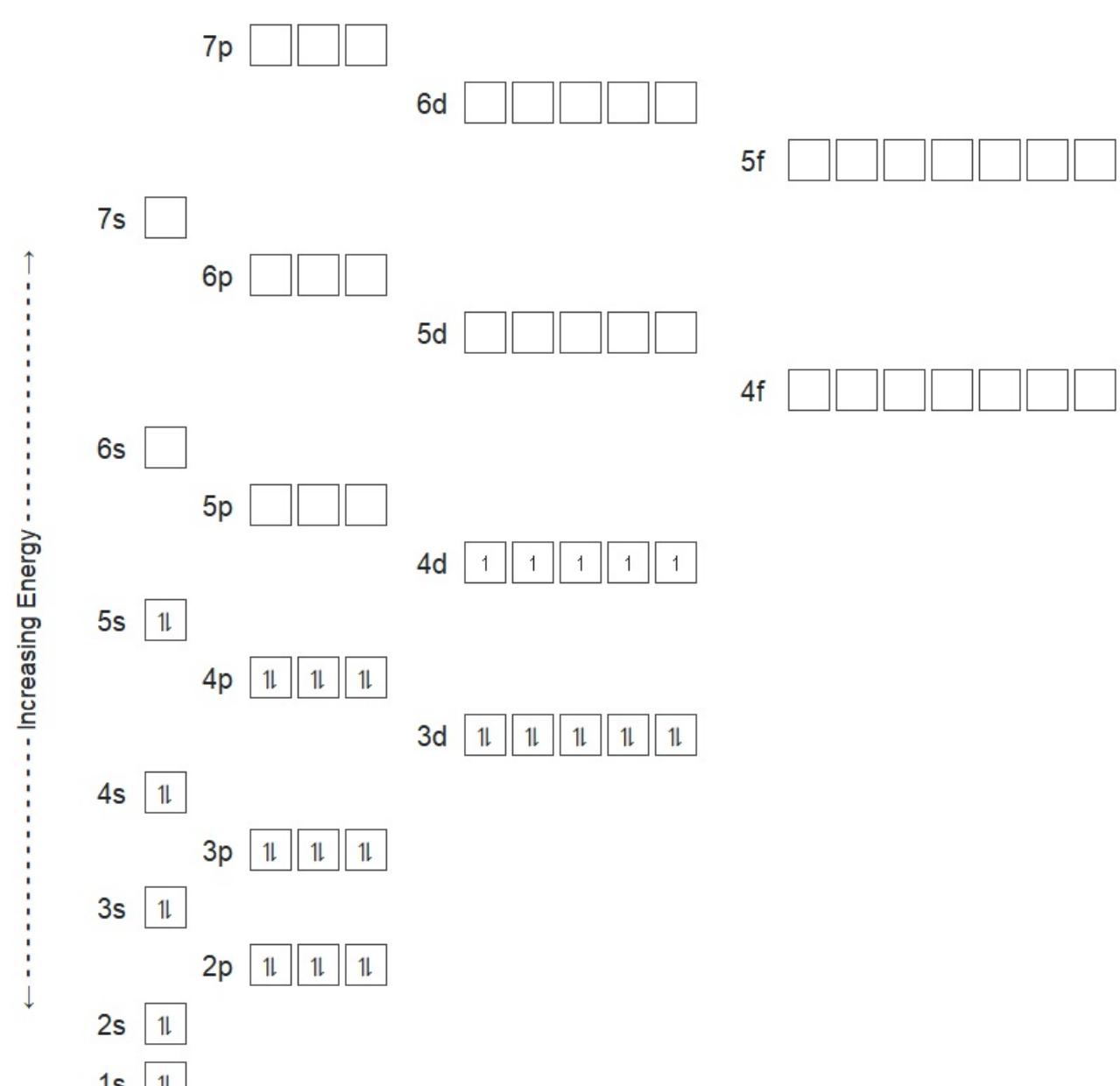
Symbol	Atomic number	Atomic weight (amu)	
<b>Tc</b>	<b>43</b>	<b>98</b>	
Atomic radius (pm)	Melting Point (K)	Boiling Point (K)	
<b>183</b>	<b>2430</b>	<b>4538</b>	
Phase - Solid	<b>History</b> The element Techneum was discovered by C. Perrier and E. Segrè in year 1937 in Italy . Techneum was first isolated by C. Perrier & E.Segrè in 1937 . Techneum derived its name from the Greek tekhnètos meaning 'artificial'.		
Crystal Structure	<b>Appearance</b> shiny gray metal		
Simple Hexagonal	An electron shell diagram for Techneum (Tc). The nucleus is at the center, surrounded by five concentric elliptical orbits. The orbits are labeled 1 through 5. Orbit 1 has two blue dots (s orbital). Orbit 2 has six green dots (p orbitals). Orbit 3 has ten red dots (d orbitals). Orbit 4 has twelve green dots (p orbitals). Orbit 5 has ten red dots (d orbitals). A legend indicates: s (blue dot), p (green dot), d (red dot).		
	<b>[Kr] 4d5 5s2</b> <b>[2, 8, 18, 13, 2]</b>		

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### Electronic Configuration



[Kr] 4d5 5s2  
[2, 8, 18, 13, 2]

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