

SKILLS IN SCIENCE



The disciplinary knowledge of a great scientist

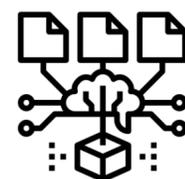
Understanding & applying scientific symbols



Accurately plot, interpret & analyse appropriate graphs



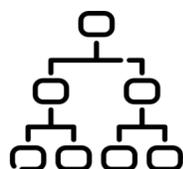
Identify & describe key concepts across scientific fields



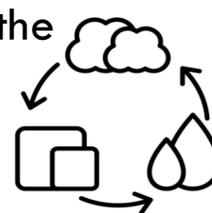
Apply scientific rules to specific scenarios or situations



Accurately draw, label, interpret & explain scientific diagrams



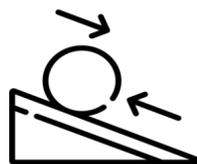
Describe & justify the structure, process, properties or state of something



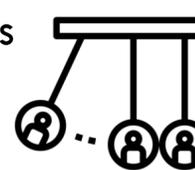
Accurately write word & symbol equations for a variety of scientific processes



Accurately convert various units of measurement



Represent processes in a range of scientific fields



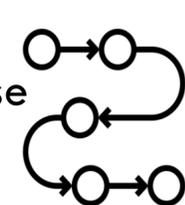
Make informed predictions about the outcomes of processes & reactions in a variety of scientific fields



Correctly measure, calculate & rearrange scientific formulae & equations for specific purposes



Investigate, explain & evaluate the cause & effect of entities & processes in different scientific fields

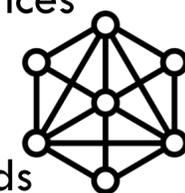


Understanding & using scientific terminology in the correct context

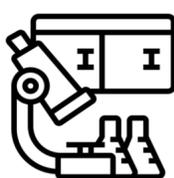
Accurately use mathematical skills to solve problems & make predictions



Explain & evaluate similarities/ differences between entities, parts & processes across scientific fields



Use scientific equipment & processes accurately & safely



Conduct & accurately record scientific investigations, & draw valid conclusions



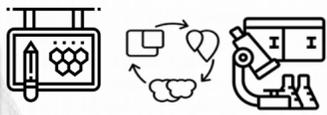
Evaluate the validity & reliability of investigations





Physics Transition Unit

Acids and Alkali



Forces 2

Biology Transition Unit

Chemistry Transition Unit



The Body

Space

Earth and the Environment



Plants and The Environment



Electricity

Nutrition and Digestion



Lab Skills



Forces



Atoms and Elements

Reproduction



Space

Lab Skills



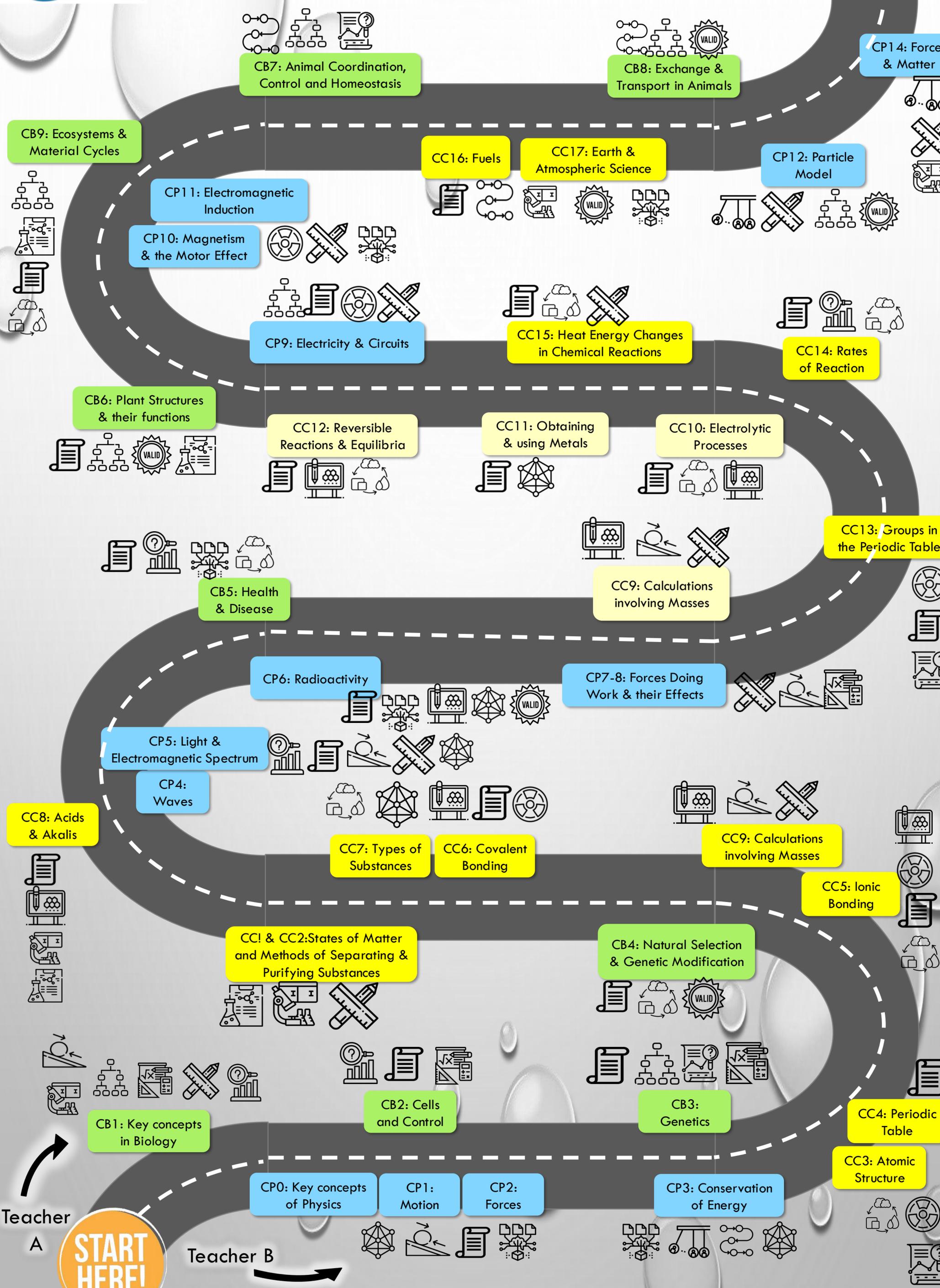
States of Matter

Building Blocks



START HERE!







Topic 9a: Organic Chemistry (CC22-24)

Topic 9b: Qualitative Chemistry (CC25-26)



Topic 7: Rates of Reaction (CC18-19)



Topic 8: Atmospheric & Earth Science (CC20-21)



Topic 6: Groups in the Periodic Table (CC17)



Topic 4: Obtaining & using metals (SC9; SC12-13)



Topic 5: Quantitative Chemistry (SC14-16)



Topic 2: Separating mixtures and States of Matter (SC 1-2)



Topic 3: Chemical Change - Acids & Alkalis (SC8; SC10-11)



Topic 1c: Key concepts
Moles & concentration (SC9) & Covalent & Metallic Bonding (SC6-7)



Topic 1a: Key concepts
Atoms (SC3) & Periodic Table (SC4)



Topic 1b: Key concepts
Ionic compounds & bonding (SC5)

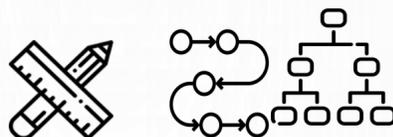


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Topic 15: Forces & Matter (SP15)

Topic 14: Particle Model (SP14)



Topic 12: Magnetism & the Motor Effect (SP12)

Topic 13: Electromagnetic Induction (SP13)



Topic 11: Static Electricity (SP11)



Topic 8: Energy (SP8)



Topic 9: Forces doing work (SP9)



Topic 10: Electricity (SP10)



Topic 7: Astronomy (SP7)



Topic 5: Light & the Electromagnetic Spectrum (SP5)

Topic 6: Radioactivity (SP6)



Topic 4: Waves (SP4)



Topic 1: Key concepts in Physics & Motion (SP0; SP1)



Topic 2: Motion & Forces (SP2)



Topic 3: Conservation of Energy (SP3)



START HERE!

Topic SB9: Ecosystems & Material Cycles



Topic SB8: Exchange & Transport in Animals

Topic SB7: Animal Coordination, Control & Homoeostasis



Topic SB5: Health, Disease and Medicine

Topic SB6: Plant Structure & Function



Topic SB4: Natural Selection & Genetic Modification

Topic SB3: Genetics



Topic SB1: Key concepts in Biology

Topic SB2: Cells & Control



START HERE!