

SCIENCE CONCEPTS INCLUDED IN *THE MYSTERY OF MATTER*

Below is a table of key chemistry and physics concepts included in *The Mystery of Matter: Search for the Elements*. The table indicates in which section(s) of the script each concept is treated, either briefly (B) or in detail (D). To find the concept, go to the indicated section of the script (1-6) and look for the blue-highlighted markers in the right-hand column.

Concept	SCRIPT SECTION					
	1	2	3	4	5	6
Air	B					
Alchemy	B					
Atom				B, D	B, D	B, D
Atomic number					B, D	B
Atomic weight			B, D	B	B	
Battery		B				
Conservation of matter	B, D					
Contributions of individuals and teams to the scientific enterprise	B	B	B	B	B, D	B, D
Electricity		B, D		B, D	B, D	
Electron		B			D	
Element	B, D		B, D	B, D	B, D	B, D
Fission						B, D
Heat		B				
Impact of scientific and technologic progress on society				D		D
Importance of scientific tools		B	B	B, D	D	B, D
Influence of society and culture on science	B	B	B	B, D	B	B, D
Ionization				B, D		
Isotope						D
Magnetism				B	B	
Matter	B	D	B	B, D	B	
Neutron						
Periodic law			B			
Periodic Table			B, D	B, D	B, D	B, D
Proton					B	
Radioactive decay				B	B, D	
Radioactivity			B	B		D
Risks associated with scientific discovery		B				B, D
Science in personal and community health		B				B
Scientific knowledge evolves by using new evidence to build on earlier knowledge	B, D	B	B, D	B, D	D	B
Serendipity	B					B
Spectroscopy			B	D	B, D	
Use of empirical standards, logical arguments, and skepticism to form scientific explanations	B	B, D	B	D	D	B
X-rays				B	B, D	