

TYPE	SUBJECT	UNIT	LESSON Explain 2	Explain 2: Gravitational Forces
Activity	Physics and Chemistry	Noncontact Forces	Lxprain 2	Between the Earth and the Moon Forces and Distances Meteorite Satellite Orbit Mass, Weight and Gravity On Another Planet Curiosity Mars Rover Gravity on each Planet Gravity in Height Mars' Natural Satellites The Satellite Europa
			Explain 3	Explain 3: Electric Forces - What Force Is Acting? - How Far Apart? - Equal Charges - System of Charges I - System of Charges II
Activity	Physics and Chemistry	Forces (II)	Explain 2	Explain 2: Measuring, Representing and Combining Forces - A Dynamometer Without a Scale - Elasticity Constant - Composition of Forces in the Same Direction - What Forces Make It Up? - Composition of Forces in Different Directions (I) - Composition of Forces in Different Directions (II) - Tug-of-War - Composition of Forces - What Is the Other Force? - Pushing a Piece Of Furniture
			Explain 3	Explain 3: Contact and Action-at-a-Distance Forces - The Wooden Blocks - A Box on a Ramp - Bus Wheels - The Bronze Bell
			Explain 4	Explain 4: Forces and Motion - Weight on the Moon - Accelerating Object - Ice Hockey
Activity	Physics and Chemistry	Quantitative Chemistry	Explain 1	Explain 1: The Mole - How Many Atoms Are There? (I) - How Many Atoms Are There? (II) - What Is the Mass Of the Sample? (I) - What Is the Mass Of the Sample? (II)
			Explain 3	Explain 3: Concentration Of a Solution - Hand Sanitizer - Recommended Calcium Intake - Soft Drinks - What Is its Molarity? (I) - What Is its Molarity? (II) - How Many Grams Does It Contain? - From Molarity to Mass Concentration I - From Molarity to Mass Concentration II
			Explain 5	Explain 5: Chemical Reaction Model -Classification Of Reactions
			Explain 6	Explain 6: Introduction to Stoichiometry - Silver Nitrate - Methanol Combustion - Iron and Hydrochloric Acid
			Explain 7	Explain 7: Calculations in Chemical Reactions - Acid-base Reaction (I) - Acid-base Reaction (II) - Titration of a Solution - Energy in an Exothermic Reaction - Energy in an Endothermic Reaction
Activity	Physics and Chemistry	Atoms and Bonds	Explain 2	Explain 2: Electronic Configuration of Atoms - Atomic Number, Charge and Number of Electrons - Electron Configurations - Electrons and Configuration - Chemical Families and Electronic Configuration - Based on Electronic Configuration I - Based on Electronic Configuration II
			Explain 3	Explain 3: Electrons in Chemical Bonding - Ionic Substances I - Ionic Substances II - Ions and Electronic Configuration - Valence Electrons in Metals - Other Covalent Bonds
Activity	Physics and Chemistry	Acceleration	Explain 1	Explain 1: Uniform and Nonuniform Motion - The Tsugaru Strait - Track and Field Records - Car Trip - Bus Route - Airplane Autopilot - The Speed of Light - Two Cyclists - Delivery Route
Activity	Physics and Chemistry	Acceleration	Explain 2	Explain 2: Speed in Graphs - Fast Animals - High-speed Train - Motion Graph - A Brief Motion - A Moving Train
Activity	Physics and Chemistry	Acceleration	Explain 3	Explain 3: Changes in Speed and Acceleration - Speeding Downhill - Marble and Ramp - On a Train - Connecting Accelerations - Exiting the Highway - The Traffic Light - Speed-time Graphs