

**BRONX COMMUNITY COLLEGE LIBRARY  
SUGGESTED FOR**

**PHY 10  
CONCEPTS OF PHYSICS**

**PHY 11  
COLLEGE PHYSICS I**

**PHY 21  
PHYSICS FOR ENGINEERING TECHNOLOGY II**

<b><u>CODE NO.</u></b>	<b><u>TITLE</u></b>
	<b><u>INTRODUCTION AND MATHEMATICAL CONCEPTS</u></b>
V1832	<b>WHAT IS PHYSICS?</b> -26min, c1982
V2584.1	<b>INTRODUCTION</b> ( <i>Conceptual Physics Alive</i> ) - 40min, c1991
DVD305	<b>BOHR'S MODEL OF THE ATOM</b> -26min, c2006
V2584.3	<b>VECTORS AND PROJECTILES</b> ( <i>Conceptual Physics Alive</i> ) - 40min, c1991
DVD724.2	<b>VECTORS</b> ( <i>Mechanical Universe</i> ) (Unit 5) – c1985
	<b><u>KINEMATICS IN ONE DIMENSION</u></b>
DVD724.1	<b>THE LAW OF FALLING BODIES</b> ( <i>Mechanical Universe</i> ) (Unit 2) –c1985
V2584.2	<b>LINEAR MOTION</b> – <i>Speed, velocity acceleration</i> ( <i>Conceptual Physics Alive</i> ) -40min, c1991
V3203.2	<b>ONE-DIMENSIONAL KINEMATICS</b> - 17min, c2000
	<b><u>KINEMATICS IN TWO DIMENSIONS</u></b>
V2584.13	<b>SATELLITE MOTION</b> – <i>Simple projectile motion</i> ( <i>Conceptual Physics Alive</i> ) -40min, c1991
	<b><u>FORCES AND NEWTON'S LAWS OF MOTION</u></b>
DVD724.2	<b>NEWTON'S LAWS</b> ( <i>Mechanical Universe</i> ) (Unit 6) – c1985
V2584.4	<b>NEWTON'S FIRST LAW</b> ( <i>Conceptual Physics Alive</i> ) -40min, c1991
V2584.5	<b>NEWTON'S SECOND LAW</b> ( <i>Conceptual Physics Alive</i> ) -40min, c1991
V2584.6	<b>NEWTON'S THIRD LAW</b> ( <i>Conceptual Physics Alive</i> ) -40min, c1991
	<b><u>DYNAMICS OF UNIFORM CIRCULAR MOTION</u></b>
V2584.11	<b>GRAVITY 1</b> – <i>Inverse-square law; weightlessness</i> ( <i>Conceptual Physics Alive</i> ) -40min, c1991

**WORK AND ENERGY**

- DVD724.4  
V1663.1 **CONSERVATION OF ENERGY** (*Mechanical Universe*) (Unit 13) – c1985  
**ENERGY AND FORCE, Part I** – Includes inertia; mass; speed; and acceleration (*Eureka*) – 25min, c1980
- V1663.2 **ENERGY AND FORCE, Part 2** – Includes gravity; weight vs. mass; work; kinetic energy; and potential energy (*Eureka*) – 25min, c1980
- V2584.8 **ENERGY** – Potential & kinetic energy (*Conceptual Physics Alive*) -40min, c1991

**ENERGY: NATURE’S POWER SOURCE SERIES** - 35min, c1998  
**MECHANICAL, THERMAL, AND LIGHT ENERGY**  
**CHEMICAL, ELECTRICAL, AND NUCLEAR ENERGY**

- DVD21.1  
DVD21.2

**IMPULSE AND MOMENTUM**

- DVD724.4  
V2584.7 **CONSERVATION OF MOMENTUM** (*Mechanical Universe*) (Unit 15) – c1985  
**MOMENTUM** (*Conceptual Physics Alive*) -40min, c1991

**ROTATIONAL KINEMATICS**

- V2584.10 **ROTATION** – Rotational inertia (*Conceptual Physics Alive*) -40min, c1991

**ROTATIONAL DYNAMICS**

- DVD724.5  
DVD724.5  
V2584.9 **ANGULAR MOMENTUM** (*Mechanical Universe*) (Unit 19) – c1985  
**TORQUES AND GYROSCOPES** (*Mechanical Universe*) (Unit 20) – c1985  
**CENTER OF GRAVITY** – Torques (*Conceptual Physics Alive*) -40min, c1991

**SIMPLE HARMONIC MOTION AND ELASTICITY**

- DVD724.4  
DVD724.5 **HARMONIC MOTION** (*Mechanical Universe*) (Unit 16) – c1985  
**RESONANCE** (*Mechanical Universe*) (Unit 17) – c1985

**FLUIDS**

- V1753  
V2584.18 **MATTER** -20min, c1992  
**LIQUIDS I** – Density and pressure & Archimede’s principle - 40min, c1991  
(*Conceptual Physics Alive*)
- V2584.19 **LIQUIDS II** – Expand Archimede’s principle and the law of flotation - 40min, c1991  
(*Conceptual Physics Alive*)
- V2584.20 **GASES** – Bernoulli’s principle (*Conceptual Physics Alive*) - 40min, c1991

**TEMPERATURE AND HEAT**

- V2661.5 **LAWS OF CHEMICAL CHANGE AND HEAT FLOW** (*Investigation in Chemistry*) -28min, c1997
- V2584.21  
V3203.3 **HEAT, TEMPERATURE, AND EXPANSION** (*Conceptual Physics Alive*) -40min, c1991  
**THERMODYNAMICS** -27min, c2000

**THE TRANSFER OF HEAT**

- V2584.22  
V2584.23 **HEAT TRANSFER** (*Conceptual Physics Alive*) -40min, c1991  
**HEAT RADIATION** (*Conceptual Physics Alive*) -40min, c1991

**THE TRANSFER OF HEAT - Cont'd**

**V2584.24** **HEAT: CHANGE OF STATE** (*Conceptual Physics Alive*) -40min, c1991

**THE IDEAL GAS LAW AND KINETIC THEORY**

**V1692.6** **THE MOLE** – *The mole and Avogadro's Number (The Mole Concept)* - 10min, c1992

**V1692.4** **AVOGADRO'S HYPOTHESIS** (*The Mole Concept*) -10min, c1992

**DVD2** **ME AND ISAAC NEWTON** (*Documentary that explores the inner worlds of seven scientists*) -110min, c2001

**F=MA: PHYSICAL SCIENCE CONCEPTS SERIES** - 33min, c1999

**DVD19.1** **FORCE**

**DVD19.2** **MASS**

**DVD19.3** **ACCELERATION**