

Subject	Science	Mode of teaching
Class/ Division	Year 8 A-F	
Week	Week 32 (25 th April to 29 th April)	
No of lessons	4	
Unit	8K Energy Transfers	
Lesson 1	Chapter – 8Ka & 8Kb Temperature changes and transferring energy LO: To know what is the difference between internal energy and temperature and how is energy transferred by heating. Learning Outcomes: <ul style="list-style-type: none"> • Explain how internal energy and temperature are different. • Identify the direction in which energy will be transferred. • Describe how energy is transferred by radiation, conduction and convection. • Use the particle model to explain energy transfers in matter. 	Zoom lesson
Task	Complete the text book questions 8Ka & 8Kb pages 168 - 169	
Resources	Text book Exploring Science (Active Learn) Pages 168 - 169 Active learn slides and PowerPoint. Text book Exploring Science (Active Learn)	
Lesson 2	Chapter – 8Kc Controlling transfers LO: How can we control energy transfers? Learning Outcomes: <ul style="list-style-type: none"> • Recall few examples of thermal conductors and insulators. • Identify ways of reducing energy transfers. 	Zoom
Task	Answer the textbook questions Kc pages 170 & 171	
Resources	Text book Exploring Science (Active Learn) pages 170 & 171 Active learn slides and PowerPoint.	
Lesson 3	Chapter 8Kd Power and Efficiency LO: How much energy do different appliances use? Learning Outcomes: <ul style="list-style-type: none"> • Describe what power and efficiency mean? • Calculate efficiencies. • Interpret Sankey diagrams. 	Zoom
Task	Complete the textbook Questions on pages 174 & 175	
Resources	Exploring Science 8 International textbook pages 174 & 175	

Lesson 4	Reinforcement Chapter 8Ka, 8Kb, 8Kc & 8Kd LO: Reinforcement of Energy Transfer – (Temperature changes, transferring & controlling energy transfer, Power and Efficiency) Learning Outcomes: <ul style="list-style-type: none"> • Explain how internal energy and temperature are different. • Identify the direction in which energy will be transferred. • Describe how energy is transferred by radiation, conduction and convection. • Recall few examples of thermal conductors and insulators and Identify ways of reducing energy transfers. • Describe what power and efficiency mean? • Calculate efficiencies and Interpret Sankey diagrams. 	GC
Task	Workbook Exploring Science 8 International pages 124 to 127; 130 to 131	
Resources	Workbook Exploring Science 8 International	

Homework – Explore how energy is transferred by **radiation, conduction** and **convection** in real life situations.