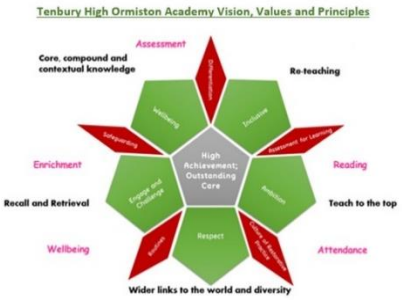
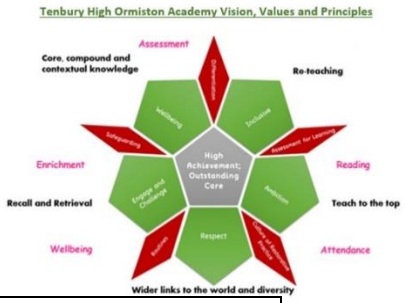
TENBURY HIGH
ORMISTON ACADEMY



Curriculum Overview for Physics
Year 10

Half Term 5: OEOO14 **Substantive Knowledge:** ▪ name the 6 stores of energy ▪ name the 5 transfers of energy ▪ recall the conservation of energy ▪ recall and identify useful and wasteful energies ▪ recall equation for efficiency ▪ recall equation for power ▪ define the difference between renewable and non-renewable sources of energy. ▪ describe the positives and negatives of each source of energy **Disciplinary Knowledge:** ▪ describe the energy stores and transfers in an unknown situation. ▪ draw a transfer chain to show energy in a system. ▪ calculate Efficiency ▪ calculate Kinetic energy ▪ calculate Potential energy ▪ calculate the energy stored in a stretched or compressed spring		Decoding of key terminology Skim reading Etymology of key terms
		Energy Matter Energy store Kinetic energy Gravitational potential energy Chemical energy Elastic energy Nuclear energy Thermal energy Transfer Light Sound Forces Electrical Heating Specific heat capacity Specific latent heat Useful energy wasteful energy Efficiency Work Renewable energy Non-renewable energy
		End of unit assessment
		Revision cards of content from lesson and specific tiered questions for the content.



Half Term 6: Bom14 **Substantive** The structure of the atom Mass number, atomic number and isotopes Properties of electromagnetic waves Types of electromagnetic waves Half-lives and the random nature of radioactive decay Nuclear equations Radioactive decay and nuclear radiation Radioactive Contamination **Disciplinary** Find the mean, medium and mode of a data set Change the subject of a formula Use ratios construct line graph from given data Understand and use the symbols ∝ ~ Construct and interpret histograms Translate data between graphical and numerical form Construct line graphs from given data 1Use standard form in mathematical calculations •	   	Decoding of key terminology Skim reading Etymology of key terms Calculate Explain Evaluate Determine Compare End of unit assessments evision cards of content from lesson and specific tiered questions for the content.