## High Tunstall College of Science Curriculum Intent

Subject: Physics Year: 9

## **Thread 5—Magnetism and Electromagnetism**



	Physics Thread	Prog	ress	
Торіс	Key ideas	R	Α	G
Magnetism and elec- tromagneti sm	I can define induced magnetism and describe how induced magnetism can be produced.			
	I can draw a magnetic fields and explain how you know if they show attraction or re- pulsion.			
	I can construct an electromagnet and explain how a scrap yard crane works.			
	I can identify the parts needed for an electric motor and describe how they work.			
	I can identify the parts needed in an electric generator and describe how they work.			

Les-	Learning Focus	Assessment	Key Words	
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1	Explore how magnetism can be induced.	Define induced magnetism and de-	Induce, temporary,	
		scribe how induced magnetism can	magnetic field, attract	
		be produced. Formative questioning,		
		exam questions and summative		
		tests.		
2	Analyse magnetic field lines for attraction and	Draw a magnetic fields and explain	Magnetic field, Field	
	repulsion	how you know if they show attrac-	Line, Pole, attraction,	
		tion or repulsion. Formative ques-	repulsion	
		tioning, exam questions and summa-		
		tive tests.		
3	Constructing and exploring electromagnets	Construct an electromagnet and ex-	Repulsion, attraction,	
		plain how a scrap yard crane works.	pole , current, mag- netic field	
		Formative questioning, exam ques-		
		tions and summative tests.		
4	Exploring how motors use magnetism	Identify the parts needed for an elec-	Current, magnetic	
		tric motor and describe how they	field, repulsion, perma-	
		work. Formative questioning, exam	nent, temporary	
		questions and summative tests.		
5	Explore how electric generators use magnetism	Identify the parts needed in an elec-	Current, magnetic	
		tric generator and describe how they	field, repulsion, perma- nent, temporary	
		work. Formative questioning, exam		
		questions and summative tests.		