

Summary of links for each Sun | trek activity

Section	Activity title	Key Stage(s)	Curriculum links Thinking scientifically / Working scientifically	Curriculum links Context/Related science content
Lesson starter activities	Starter activities Y7	KS3	Make predictions Interpret data, identify patterns Present reasoned explanations	Planets/Solar system
	Starter activities Y9	KS3	Make predictions Present data, produce graphs Interpret data, identify patterns Present reasoned explanations	Planets/Solar system Gravitational force Speed
Using real solar data	Sunspots and magnetic fields	KS3	Record observations Interpret data, identify patterns Present reasoned explanations	Magnetism and Electromagnetism
	Differential rotation of the Sun	KS3	Interpret data, identify patterns Calculate results	The Sun as a star/Space physics Speed
	Velocity and acceleration of CMEs	KS3/KS4	Record observations Calculate results Interpret data, identify patterns	The Sun as a star/ Space physics Speed, velocity and acceleration
	Solar cycles	KS3/KS4	Record observations Present data, produce graphs Interpret data, identify patterns	The Sun as a star/Space physics Electromagnetic spectrum
New projects using real solar data	Solar images and data	KS4	Record observations Calculate results Interpret data, identify patterns Evaluate data, identify sources of error	Communications Electromagnetic spectrum Magnetism and Electromagnetism The Sun as a star/ Space physics
	Space weather effects	KS4	Calculate results Interpret data, identify patterns Evaluate data, identify sources of error Risk Impact of developments in science and technology	Speed, velocity and acceleration Energy Communications The Sun as a star
	Spectra	KS4	Interpret data, identify patterns Present reasoned explanations Models and theories, ideas and evidence	Electromagnetic spectrum Light and waves Ionisation and atomic spectra The Sun as a star/ Space physics
Sun Earth Projects	Keeping safe in the sun	KS3	Record observations Present data, produce graphs Interpret data, identify patterns	Electromagnetic spectrum Light and waves
	Sun spotting	KS2/KS3	Present data, produce graphs Calculate results Interpret data, identify patterns	The Sun as a star/ Space physics
	Space storms	KS3	Calculate results Interpret data, identify patterns	Speed The Sun as a star/Space physics
	Spotting magnetic storms	KS3	Record observations Interpret data, identify patterns Evaluate data, identify sources of error	Magnetism and Electromagnetism The Sun as a star/ Space physics

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Science projects	Are those stars or suns?	KS4	Models and theories, ideas and evidence	Planets/Solar system	
	Basketball Earth	KS3/KS4		Planets/Solar system	
	Earth-Sun-Moon-SOHO distances	KS3	Calculate results	Planets/Solar system Distance and speed	
	How far?	KS3/KS4	Present data, produce graphs	The Sun as a star/Space physics	
	Hubble's universe	KS3/KS4	Interpret data, identify patterns Models and theories, ideas and evidence	The Sun as a star/ Space physics Distance and speed	
	I am a star	KS3/KS4		The Sun as a star/Space physics	
	Lava lamp Sun	KS3	Record observations Present data, produce graphs Interpret data, identify patterns	The Sun as a star/ Space physics Energy transfer	
	Measuring the diameter of our star	KS3	Record observations Calculate results	Planets/Solar system	
	Measuring the hours in a day	KS3	Record observations Calculate results	Planets/Solar system	
	Pinhead solar system	KS3		Planets/Solar system	
	Scaling the solar system	KS3	Calculate results	Planets/Solar system	
	Solar tornadoes	KS3/KS4	Plan investigations Select appropriate apparatus and techniques Calculate results Present data, produce graphs Interpret data, identify patterns Evaluate data, identify sources of error	Planets/Solar system Distance and speed	
	Solar wind surfing	KS4	Interpret data, identify patterns (Evaluate data, identify sources of error) Present reasoned explanations	The Sun as a star/ Space physics Distance and speed	
	Taking the temperature of the Sun	KS4	Record observations Calculate results Interpret data, identify patterns Evaluate data, identify sources of error	The Sun as a star/Space physics Energy transfer	
	What is your real star sign?	KS3	Models and theories, ideas and evidence	Planets/Solar system	
	Scavenger hunt KS3	KS3	-		
	Scavenger hunt KS4	KS4	-		
	Quick quizzes	Spinning and orbiting Earth (AY1)	KS3	-	Planets/Solar system
		The Moon's phases	KS3	-	Planets/Solar system
		The Moon's vital statistics	KS3	-	Planets/Solar system
What causes the seasons?		KS3	-	Planets/Solar system	
What is a lunar eclipse?		KS3	-	Planets/Solar system	
Atoms		KS4	-	Atoms and ions	
Solar eclipse		KS3	-	Planets/Solar system	
Light and waves		KS4	-	Electromagnetic spectrum	
Sound		KS3	-	Sound and waves	
The Sun		KS3	-	The Sun as a star/Space physics	
Maths fun	Kepler's Law		-	MATHS ACTIVITIES	
	Earth Ellipse		-		
	International Space Station		-		
	Orbiting the Sun		-		