

## Year 6 Knowledge and Skills Tracker

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Ancient Egypt	Ancient Egypt	WW2	WW2/Revision	Transition Project	Transition Project
		Science Kr	nowledge		
Living Things &	Living Things &	Light	Electricity	Evolution &	Evolution &
Habitats	Habitats			Inheritance	Inheritance
Animals including	Animals including				
Humans	Humans				
To describe how living	To describe ways in	To know that light	To know that	To recognise how life	To explain that
things can be	which some choices	travels in straight	electricity is a form	cycles have evolved	organisms that are
classified into further	can be harmful to	lines.	of energy.	to help organisms	best suited to their
groups.	the circulatory			survive adulthood.	environment are
	system and our	To recognise that	To identify that		more likely to
To understand that	overall health.	animals see light	when more bulbs to	To know that, over	survive long enough.
the heart pumps		sources when light	a simple circuit will	time, the	
blood around the	To recognise that	travels from the	reduce the electrical	characteristics that	To recognise that
body.	animals and humans	source into their	energy and will dim	are most suited to	sometimes
	get nutrition from	eyes.	the light.	the environment	environments can
To know that oxygen	what they eat.			become increasingly	change and this has
is breathed into the		To know that light	To recognise that the	common.	an effect on the
lunged where it is	To explain that	reflects off all	number and voltage		plants and animals
absorbed by the	nutrition is	objects (unless they	of a cell can impact	To understand that	that exist there.
blood.	transported through	are black) and that	how bright/dim a	variation exists	
	our blood.	non-shiny surfaces		within a population	

To know that muscles need oxygen to release energy from food to do work.		scatter the light so that the beam cannot be seen.  To recognise that shadows are caused when certain materials block light.	bulb is within a circuit.  To identify the key components of a circuit – battery, wire, bulb, buzzer, motor and switch.	(and between offspring of some plants) To know that organisms reproduce and offspring have similar characteristic patterns.	
<ul> <li>Describe how and why living things are classified into broad groups.</li> <li>Identify and name main parts of the human circulatory system and describe their function.</li> <li>Report and present findings from enquiries. (WS)</li> </ul>	<ul> <li>Recognise the impact of diet, exercise, drugs and lifestyle on the way our bodies function.</li> <li>Describe how nutrients and water are transported within animals, including humans.</li> <li>Plan scientific enquiries to answer questions, controlling variables where necessary. (WS)</li> </ul>	<ul> <li>Recognise that light appears to travel in straight lines.</li> <li>Explain that, to see, light travels from light sources, reflects from objects and then enters our eyes.</li> <li>Explain why shadows have the same shape as objects that cast them.</li> <li>Report and present findings from enquiries. (WS)</li> </ul>	<ul> <li>Understand effect of changing number and voltage of cells used in a circuit</li> <li>Compare and give reasons for variations in how components of a circuit function</li> <li>Use recognised symbols when representing a simple circuit in a diagram</li> <li>Report and present findings from enquiries. (WS)</li> </ul>	<ul> <li>Recognise fossils show how living things have changed over time.</li> <li>Recognise living things produce offspring, but normally offspring are not identical to parents.</li> <li>Use test results to make predictions to set up further comparative and fair tests. (WS)</li> </ul>	<ul> <li>Identify that living things adapt and that adaptation may lead to evolution.</li> <li>Report and present findings from enquiries. (WS)</li> </ul>

	Identify scientific evidence that has been used to support or refute ideas or arguments. (WS)	Plan scientific enquiries to answer questions, controlling variables where necessary. (WS)	<ul> <li>Plan scientific enquiries to answer questions, controlling variables where necessary. (WS)</li> <li>Record data and results of increasing complexity. (WS)</li> <li>Take measurements. (WS)</li> </ul>	
	T.	History Kr		
To know about some	To know the	To know key events	To know the impact	
Egyptian artefacts and	controversy	and key players	of WW2 on Crewe	
explain their purpose.	surrounding	during WW2	and the surrounding	
To know the key dates	Cleopatra	To know about key	area.	
To know the key dates of some Ancient		turning points in the	To know how Britain	
Civilisations.		war	changed during and	
Civilisations.		· ···	after WW2.	
			To know that	
			sources of	
			information may	
			vary.	
		History	Skills	

Examine artefacts and explain what they show us about that time in history.  Place events, people and changes into correct periods of time and chronological order.  Use and understand abstract terms such as empire, civilisation, parliament and peasantry.	Suggest reasons for conflicting historical accounts (Egypt)  Identify and describe changes within and between different period in history.	Discuss the impact of significant historical events, people and places in their own locality (WW2)  Make links between events and changes; giving reasons for them and explaining the result (WW2)	impact of significant historical events, people and places in their own locality.  Discuss the impact and causes of historical changes in Britain. Identify and describe changes within and between different period in history. Analyse sources of information for accuracy, usefulness and relevance.		
		Geography I			
To know the Seven continents and some countries in Africa	To know the importance of accuracy in map making	To know how the geography in the UK has changed following WW2.	To know the difference between political, physical and thematic maps	To know about a topical geographical issue (e.g. climate change) and how it	To know how OS maps are used to show how the land changes e.g. height/steepness

To know that the equator and tropics are imaginary lines used on maps	To know why key historical sites are protected	To know how to interpret and create a scale on a map.		affects us now and in the future.			
To know how to use interactive maps	To know how to read and write a 6 figure grid reference						
		Geograp	hy Skills				
Locate the world's continents/countries  Locate the Tropics of Capricorn and Cancer, the Greenwich Meridian and time zones.  Use digital/computer mapping to locate places in the KS2 PoS.	To use photographs and measurements to create an accurate map of an area (Egypt)  To explore and explain topical geographical issues over time (Egypt)	Make a scale drawing using scales based around powers of 10.  Locate places on an OS map using 6 figure grid reference (WW2)	Understand how the geography of the UK has changed over time.  Make own simple thematic map based on own data (WW2)	Explore and explain topical geographical issues over time.  Use longitude and latitude as a guide to a location on an atlas.	Read the scale on contour lines on an OS map.  Locate places on an OS map using 6 figure grid reference		
	Art Knowledge						
To know the work of an artist  To know how to control charcoal to best effect		To know about propaganda posters  To know how to layer colour		To know how to record minute detail  To know how to add detail to background colours			
		Art S	kills				

<ul> <li>Replicate images by well-known artists.</li> <li>Use charcoal with increasing control.</li> <li>With pencil, control perception of distance.</li> </ul>	<ul> <li>Explore impact of well-known artists and architect's work on the society at the time (WW2)</li> <li>With coloured pencil, can layer colours</li> <li>Prepare a drawing surface to create a wax crayon image.</li> </ul>	<ul> <li>Use pens to record minute detail.</li> <li>Create different effects with paint</li> <li>Create layers of paint to add detail to background colours.</li> <li>Prepare a drawing surface to create a wax crayon image.</li> </ul>
	D&T Knowledge	
To know how to follow a recipe  To know and understand simple units of measure when cooking  To know that world cuisines vary  To know ow to maintain a healthy lifestyle	To know how to code a simple program  To know how Morse Code was used during  WW2  To know how an electrical circuit works.	To know how products are designed, evaluated and modified according to their intended purpose.
To know on to maintain a nearth, inestific	D&T Skills	
<ul> <li>Select the appropriate tools to follow a given recipe to make a savoury dish.</li> <li>Estimate amounts of ingredients to an appropriate level of accuracy.</li> <li>Understand how different foods are produced in different areas of the world.</li> <li>Understand what different affects food types have on the body.</li> </ul>	<ul> <li>Use a computer design program to communicate ideas (WW2 Lego)</li> <li>Explore impact of well-known designers and inventors' products.</li> <li>Include an electrical circuit that produces more than one outcome</li> </ul>	<ul> <li>Design products that are innovative and appeal to individuals or groups.</li> <li>Evaluate existing products in relation to their purpose and audience.</li> </ul>
	Music Knowledge	

To know the meaning of key musical terminology	To know what a soundscape is.	To know about the morale boosting songs of the war  To know how to sing a round  To know how to lead a round  To know how to alter lyrics for own	To know how music is expressed on paper.  To know how to describe music using key vocabulary.	To know about some historical composers and musicians.	To know how to control own voices when performing a song.
		composition			
		Music	Skills		
<ul> <li>Compare pieces thinking about texture, structure, timbre and dynamics.</li> <li>Sing expressively combining dynamics, tempo and pitch</li> </ul>	Compose a soundscape	<ul> <li>Explain how the music of the past reflected the society of the time (WW2)</li> <li>Take part in a three-part harmonies and descant (WW2)</li> <li>Lead a group in a performance (WW2)</li> <li>Perform own compositions from memory (WW2)</li> </ul>	<ul> <li>Pick out details within a piece and recall these details from memory.</li> <li>Starting to interpret musical notation.</li> <li>Sing expressively combining dynamics, tempo and pitch. (Sing up Day)</li> </ul>	Find similarities and differences between different historical composers and musicians.	Understand     when to use     varying volumes,     pitch and     expression in     voice to portray     an idea or mood.

		Computing	Knowledge		
To know how to use the program design process, including flowcharts, to develop algorithms for more complex programs using and understanding of abstraction and decomposition to define the important aspects of the program.  To effectively code, test and debug from these designs.	To know how to create and interrogate a spreadsheet.	To know the importance of staying safe online.  To know how to report concerns about what children see online.	To identify the purpose of a blog and its key features.  To plan the theme and content of a blog and write the content.  To consider the effect on the audience in changing the physical properties of the blog.  To understand how and why blog posts are approved by the teacher.	To know what the internet consists of.  To know what LAN and WAN are.  To know how the internet is accessed in school.  To recognise the age of the internet and consider what the future may hold.	To know how to use a variety of software to create a digital quiz.  To recognise how audience must be considered when creating effective software.
		Computi	ng Skills		
<ul> <li>Solve problems in writing programs by decomposing them into smaller parts.</li> <li>Use selection and repetition in programs.</li> </ul>	<ul> <li>Combine a         variety of         software to         accomplish given         goals on a range         of digital devices</li> <li>Design and         create systems</li> </ul>	<ul> <li>Understand the importance of using technology safely, respectfully and responsibly</li> <li>Identify a range of ways to report</li> </ul>	<ul> <li>Understand the opportunities computer networks offer for collaboration.</li> <li>Understand the basic workings of computer</li> </ul>	<ul> <li>Understand the opportunities computer networks offer for collaboration.</li> <li>Understand the basic workings of computer</li> </ul>	<ul> <li>Combine a         variety of         software to         accomplish given         goals on a range         of digital devices.</li> <li>Design and         create systems</li> </ul>

<ul> <li>Explain how some simple algorithms work and detect and correct errors in them.</li> <li>Combine a variety of software to accomplish given goals on a range of digital devices.</li> </ul>	that accomplish given goals  • Analyse and evaluate information and data	concerns about content and contact	networks including the internet.  Understand the importance of using technology safely, respectfully and responsibly.  Identify a range of ways to report concerns about content and contact.	networks including the internet.	that accomplish given goals.  • Analyse and evaluate information and data.
To know the rules for	To know how to	To know how to	To understand the	To know when is	To understand the
playing a game of	follow a simple map.	attack and defend in	rules of the game of	suitable to use a	rules of the game of
hockey.		invasion games, including finding	netball.	sprint when running according to	tennis.
To know that dance	To know how to	space.	To recognise how	distance.	To know the
comes in various	sequence a range of		creating space		different strokes in a
styles	gymnastic movements	To know different ways of passing /	improves game play.	To understand how to compose the body	game of tennis.
		hitting the ball in	To perform a range	correctly in order to	
		team games.	of dance actions in	effectively	
			order to create	run/jump/throw.	
			individual routines.		
		PE S	kills		
Hockey:	Orienteering:	Tag Rugby/Seated	Netball:	Athletics:	Tennis:
		Volleyball:		Run longer	

- •In a game, select the most appropriate person to pass to and the style of pass to use.
- •Hit a ball into space to help increase score within a game.
- Dribble a ball in different directions and avoid obstacles.
- •Help other members of team to find space within a team game.
- •Use a range of attacking and defending skills when playing a team game.

## Dance:

- •Perform dance actions with control and expression.
- •Choose own dance steps and movements and then develop them into a routine.
- •Choreograph short routines to portray a

- Plan a simple orienteering trial for others to complete
- Read a wide
  variety of map
  symbols and use
  a compass when
  following a given
  route. Plan ideas
  of how to solve a
  problem before
  attempting it.
- or non-verbal or non-verbal communication is the most effective choice when solving problems. Take the lead within a group challenge and give clear instructions to others.
- Evaluate own and the team's performance and suggest improvements

- Choose the most appropriate throw to use within a game.
- Call out for a catch in a game showing they know they are in the best place.
- In a game, select the most appropriate person to pass to and the style of pass to use
- Help other members of team to find space within a team game.
- Use a range of attacking and defending skills when playing a team game.

- Help other members of team to find space within a team game.
- Use a range of attacking and defending skills when playing a team game.

## Dance:

- Perform dance actions with control and expression.
- Choose own dance steps and movements and then develop them into a routine.

- distances; knowing when to use a sprint.
- Use a body shape to decrease air resistance when running.
- Use the correct action to throw a javelin with a run up.
- Jump: one foot to same foot to two feet.

- Hit a ball into a space to help increase score within a game.
- Help other members of team to find space within a team game.

## Rounders:

- Help other members of team to find space within a team game.
- In a game, select the most appropriate person to pass to and the style of pass to use.
- Hit a ball into space to help increase score within a game.
- Call out for a catch in a game showing they

particular mood or	Gymnastics:	know they are in
style.	Perform actions	the best place.
	in and out of	Choose the most
	rolls.	appropriate
	Lead others in a	throw to use
	stretching	within a game.
	routine to	
	prepare for	
	gymnastics.	
	Perform a range	
	of balances with	
	a high level of	
	control and	
	accuracy.	
	Hold different	
	positions when	
	balancing and	
	use different	
	shapes to express	
	a given	
	theme/mood.	
	Create sequences	
	that have	
	changes of speed	
	and level.	
	Select the most	
	appropriate ways	
	to travel from	
	one balance to	
	another.	

END POINTS	END POINTS	END POINTS	END POINTS	END POINTS	END POINTS
Children will have a greater understanding and appreciation of an ancient civilisation.	Children will have a greater understanding and appreciation of an ancient civilisation.	Children will have a greater understanding and appreciation of WW2 and its impact on modern Britain.	Children will have a greater understanding and appreciation of WW2 and its impact on modern Britain.	Children will have developed their personal, emotional and social skills to take with them to secondary school and beyond.	Children will have developed their personal, emotional and social skills to take with them to secondary school and beyond.