Sandhill View

Environmental Studies Curriculum Policy

Achieve Aspire Enjoy

Academy Aim

Here at Sandhill View Academy, we aim to securely equip <u>all</u> of our students for life beyond school as successful, confident, responsible and respectful citizens. We believe that education provides the key to **social mobility** and our curriculum is designed to build strong foundations in the knowledge, understanding and skills which lead to **academic and personal success**. We want our students to **enjoy** the challenges that learning offers. And ultimately, we want students to '*Know More, Do More and Go Further*'

Our aims are underpinned by a culture of **high aspirations**. Through developing positive relationships, we work towards every individual having a strong belief in their own abilities so that they work hard, build resilience and **achieve** their very best.

Intent

The curriculum includes project-based learning, assemblies and extracurricular activities. We regularly review content to ensure we continue to meet our curriculum aims. The Environmental Studies curriculum is planned to allow students to become immersed in the world they live in and allow them to have personal growth in the skills that are required to be a well-rounded citizen, whilst conducting a range of fieldwork linked to Geography. By completing a range of topics, students build skills that are transferable across all curriculum areas and help them put theory into practice. The Environmental Studies curriculum will enhance pupils' self-confidence, motivation and physical skills through project-based learning. The Environmental Studies curriculum is planned to enable all students to confidently develop knowledge and skills in the following areas:

- Confidence
- Social awareness
- Environmental awareness
- Physical skills
- Personal qualities
- Key skills
- Health and fitness
- Broaden horizons

The British values of democracy, the rule of law, individual liberty, and mutual respect of those with different faiths and beliefs are taught explicitly and reinforced in the way in which the school operates. We are also explicitly embedding transferable 'Skills Builder' skills such as problem solving, aiming high and teamwork to prepare our students for careers and life after school.

Sequence and structure

Our curriculum is delivered throughout Key Stage 3 (years 7, 8 and 9). It is structured to build on prior knowledge and inform for future learning at KS3 in years 7, 8, and year 9. Each year builds on the skills and techniques gained in the previous year. The topics are taught via project-based learning in which students gain knowledge and skills by working for an extended period to investigate and respond to an authentic, engaging, and complex question, problem, or challenge.

Literacy

We know that students who read well, achieve well. As such all-subject areas are committed to providing regular opportunities to read extensively. In Environmental Studies we have incorporated literacy through using SMART readers, speeches and incorporating the word of the week. We have key vocabulary that are embedded throughout using PUSH and FRAYER models.

KNOW MORE: Our Key Stage 3 Environmental Studies Curriculum includes the following areas of study:

Three year KS3 with 1 hour per week allocated to Environmental Studies.

KS3			Half Term 3	Half Term 4	Half Term 5	Half Term 6
Year 7	Outdoor Art	Navigation	Forest Trails	Poetree	Bushcraft	Elements of
	(Respect)	(Location)	(Biodiversity)	(Resilience)	(Teamwork)	nature (Biodiversity)
						Importance of soil –
			Tree and plant	Reflective reading in		acidity, composition –
	forest – health and		identification	the forest, based on		link to types of plants
	safety whilst in the		\ I			which could survive,
	· · · · · · · · · · · · · · · · · · ·		with Science) – use			link to safe
	1 1			•	O'	construction.
	expectations.		tree identification,		building, boat	(potential link with
			· ·	Learn about famous		Science for
	•		assess and present			experiment?)
			biodiversity from	•	The ultimate test	D ''' (
		•	quadrat use.			Providing nature, a
		criterion of what a	Ulabilia di manana bana	,		habitat – beetle
	frame to represent		11 0			banks, pond
	respecting nature,				requires students to	
	students to make		•		work together to put all their skills	
			and what makes a		together to create a	Camp roundup –
	and lack of respect		successful map to			summer – important
	for natural		create a map of the			maintenance to keep
			various habitats			habitats alive/prepare
			within the school			for winter.
			grounds – providing			ior winter.
			a foundation report			
	Creation of dream		to the biodiversity			
		Practical task using				
			grounds.			
	,	navigate and an				
	What would be the					
		challenge.				
	respecting	Ĭ				
	the environment					
	on a local, national					
	and global scale.					

	H					
	How would your					
	dreams look if no					
	one cared?					
			UK Land Use			Pigmentree
	(Recycling)	•	(Location)	(Biodiversity)	crafts (Teamwork)	(Resilience)
	0 1 (11	(Sustainability)			F: :0 ()	A (611
	Sounds of the	Lanca Cara Cara Sa Ca	Frankrich Com of the			Japanese Art of Hapa
		Investigation into	Exploration of the	identifying species –		zome – Using plants
		I .	UK land use.	what to look out for,	camptires.	and cloth to release
		infiltration in an	Frankria Cara af	how to be safe	Halan Cara ta araba	their natural pigments
		urban environment.	•	fleave only footprints	•	onto ciotn.
		O .		' '	a hot drink –	
			Sunderland.		survival methods.	Create a tablecloth
	Use of vegetables		Harrier I am decread	Mini beast	0	that demonstrates the
	0	infiltration on urban				importance of
	carrot flute.		within the school	•		biodiversity in urban
	One office of colors		grounds?			areas.
		Complete full	Complete as	different areas of the		
		investigation into			impact and speed	
	recycled products.				to survive.	
			which explores land use and production		Creation of Whittled	
		grounds.			tools such as	
	impacts of		of a report to	11 5	marshmallow fork.	
	recycling on a		explain the most appropriate use of	with a better	marshmanow lork.	
	local and national		that land.	understanding of		
	level.		liial iailu.	suitable locations to		
				monitor biodiversity.		
				monitor blodiversity.		
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Year 9	Outdoor First Aid	Camp Hibernation	Working Woods	Map it out	Small Mammal	Outdoor Cooking
Year 9	Outdoor First Aid (Resilience)	Camp Hibernation (Biodiversity)	Working Woods (Sustainability)		Small Mammal investigation	Outdoor Cooking (Teamwork)
Year 9						
Year 9	(Resilience)	(Biodiversity)		(Location)	investigation	
	(Resilience) Students to learn	(Biodiversity) Biodiversity	(Sustainability) Explore the forestry	(Location)	investigation	(Teamwork)
	(Resilience) Students to learn the basic first aid	(Biodiversity) Biodiversity	(Sustainability) Explore the forestry industry within the	(Location) Building on knowledge gained	investigation (Biodiversity)	(Teamwork) Creation of 'Outback Shack' menu where
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	biodiversity within school.		

DO MORE: Milestone assessment end points Unit specific substantive, and disciplinary knowledge and skill end points are detailed on individual schemes of learning

Year	Basic	Clear	Detailed
Group	(Lower Ability End Points)	(Middle Ability End Points)	(Higher Ability End Points)
7	Students will be able to: Select	Select the most suitable product	Students will be able to; tie a half clove hitch knot,
	natural products that have been	to use when making dream	to create picture frames and wind chimes.
	foraged to use as decoration.	catchers and photo frames	Students can demonstrate excellent health and
			safety knowledge. Students are able to explain
	Students will be able to: Select	Students will be able to: tie a knot	why you have used the natural resources chosen.
	natural products that have been	that can be used to create a	Students will be able to; Produce a variety of
	foraged to use as decoration. Students can tie a knot with	picture frame and wind chimes. Students can demonstrate some	decorative art pieces that use a range of natural products that can be used to depict 'Nature's
	support to create a picture frame	health and safety knowledge.	beauty'
	and wind chimes. Students can	Students are able to describe	boddiy
	demonstrate some health and	what natural resources you have	Students will be able to; explain the role of maps
	safety knowledge with prompts or	used	in the wider world and current uses of maps within
	support. Students are able to		industry. Students will also be able to take
	describe what natural resources	Students will be able to describe	accurate bearings and navigate over long
	you have used.	the role of different map features	distances using map features and a compass.
	Libertifica and a strong factors	such as North arrow, scale and grid references. Students will also	Of shorts will be able to identify and leasts as an
	Identify a range of map features, be able to describe the different	be able to use a compass to	Students will be able to; identify and locate on an OS map the location and accurately record the
	map uses and use basic features	navigate distances around the	type of habitat using flowcharts. Students will also
	of a compass to navigate short	school grounds.	be able to produce an overall evaluation into the
	distances.		health of habitats within the school grounds and
		Students will be able to: accurately use flowcharts to	provide suitable improvements to aid the health of
	Participate in Shinrin Yoku, able to	identify all habitats within the	the school grounds.
	describe what some of the	school grounds. Students will also	Identify and locate on an OS map the location and
	environmental challenges of the world. Students will also be able	produce a detailed map	accurately record this to provide a long-term study
	to use their senses to describe	highlighting the range of habitats	of the urban habitats within the school grounds.
	what life would be like without	within the school grounds.	of the dibar habitate within the concer grounds.
	nature. Students will also be able	Students will also produce a	In addition to the above, students will be able to;
	to describe what some of the aims	report which provides a foundation	produce a poem based on their reflective reading,
	of Generation Green are.	report into the health of the school habitats.	current surroundings and own personal beliefs.
		Habitats.	Explain the challenges found by the world making
	Identify and record a range of	Explain the challenges faced by	Explain the challenges faced by the world making reference to local and global challenges. Students
	habitats and record with a degree of accuracy on a map. Students	the world making reference to	will also be able to use their senses to create a
	will also be able to record a range	local and global challenges.	piece of poetry or short story to raise
	of species within the habitats to	Students will also be able to use	environmental awareness to people of their age.
	establish overall health of the	their senses to create a piece of poetry or short story to raise	Students will also be able to describe all 5 aims of
	school habitats. Students will also	environmental awareness to	Generation Green.
	be able to produce a basic report	people of their age. Students will	Football the stille seed of the 20 Built of
	into the overall health of the	also be able to describe all 5 aims	Explain the skills associated with Bushcraft
	school grounds.	of Generation Green.	principles, demonstrating a high level of competency in those practical skills. Students will
			also be able to effectively work as a team, using
	Students will be able to: Be able		excellent communication to execute their group
	to collect relevant information on		plan. Students will produce both camp shelter and
	to obligation of the first of t	<u> </u>	1

Group (Lower Ability End Points)	(Middle Ability End Points)	(Higher Ability End Points)
the different habitats that are likely to be found in the forest school and wider urban environment. Create a story, speech or poem to express the importance of being 'Generation Green' and explain small changes that young people can do to make a big difference to combatting climate change. Safely identify a range of tools that are used within bushcraft and demonstrate safe use of tools. Students should also be able to state the principles of bushcraft, whilst demonstrating a basic range of skills such as shelter building. Students should also be able to work within a team demonstrating a good communication skills. Safety demonstrate their practical pond surveying skills. Students should also be able to demonstrate how to complete a test of soil texture. Students should also be able to state how wind can impact the environment, and how to complete a basic sun dial.	In addition to the above, students will be able to: to identify a range of urban habitats using flow charts. In addition to the above, students will be able to: make connections between the story and real-life situations to create own piece of writing. Students will be able to: describe the principles of Bushcraft and demonstrate skills associated with these to a good standard. Students will also work effectively in a team, demonstrating strong communication whilst working in a team. Students will also be able to describe the steps taken to produce a water purification system, providing a basic evaluation of their camps. Correctly identify a range of species found within a small ecosystem environment using an identification card. Students should also be able to describe the texture of the 3 main soil components and how this can be tested. Students should also be able to describe how to tell the time using natural resources.	water purification and be able to critically evaluate both projects. Students will demonstrate strong leadership within group activities. Demonstrate a competent performance using soil sampling tools to safety collect an appropriate soil sample to be tested. Students should also be able explain how wind impacts a small-scale ecosystem for both human and physical features.

Select natural products that have been foraged to use as musical instruments.

Write a methodology to plan out their investigation, collect data from a number of sites, present their data using simple charts and graphs.

Able to make valid suggestions for land use diversification in the UK.

Identify a range of British invertebrates. Students should also be able to collect data to describe the level of biodiversity within the school grounds.

Identify different concepts of bushcraft. Students should also be able to describe the skills needed to safely use bushcraft tools such as safety knife and flint and steel. Students will also demonstrate safe whittling techniques with some support or guidance. Students to have a basic understanding of the laws surrounding knife use and fires in the UK. Students will also be able to work as a team, demonstrating basic communication skills.

Demonstrate safe whittling techniques to create a small pen or paintbrush. Students should be able to state the natural dyes that can be extracted from natural products. Students should be able to state strategies to be more sustainable and produce a piece of artwork to represent this.

Select the most suitable product to use when creating musical instruments and wind chimes.

Give clear reasons for the methods used, compare data collected from a number of sites, analyse data to enable valid conclusions to be made.

Complete industry recognised skills such as soil sampling to complement their project work.

Describe the role that a range of invertebrates within an ecosystem. Students should also be able to collect data, present using the most appropriate data presentation method and begin to provide some analysis of the biodiversity of invertebrates within the school grounds.

Identify a small range of suitable for whittling. Students will also be able to explain the core concepts of bushcraft. Students will also be able to demonstrate safe use of bushcraft tools such as knives and flint and steel and use them competently. Students will have a clear understanding of the laws surrounding knife use and fires in the UK. Students will also be able to competently work as a team, demonstrating good communication skills.

Create a pen and paintbrush to use with the natural dyes they have extracted from natural products. Students should also be able to describe what biodiversity is and the importance of this for urban sustainability.

Evaluate their successes at building a wind chime and be able to use this to design more advanced chime.

Give clear reasons for the methods used, compare data collected from a number of sites, analyse data to enable valid conclusions to be made.

Explain the suggestions made for their land use recommendation report that are suitable and relevant to the assignment brief.

Explain the importance of protecting invertebrates within an ecosystem. Students should also be able to provide a detailed analysis, comprehensive conclusion and provide an evaluation on their investigation.

Explain the skills needed for bushcraft concepts of whittling and fire starting. Students will also be able to explain the UK knife law and impacts of improper use of knives. Students will also be able to competently work as a team, demonstrating excellent communication skills. Explain the impact of their future sustainability plans that benefit an urban environment. Suggestions will be relevant to young people and to the local area of Sunderland.

Identify who to call in an emergency and able to describe the acronym DR ABC. Able to demonstrate safe working practices, team work and communication skills in most tasks. Able to place a partner into the recovery position, with some support. Able to complete a full and thorough primary survey with support.

Identify different bird and mammal species using a guide. Students should also be able to produce a basic report which details what has been done in the investigation and demonstrates the results of the investigation.

Describe how woodlands are managed and maintained within the UK. Students will also be able to describe the simple stages of charcoal production. Students should also be able to produce a basic social media post to promote the production of charcoal.

Identify mammal species within the UK. Students should also understand the need to record mammals in real life examples eg phase 1 habitat surveys. Students should be able to produce a basic bar chart to demonstrate biodiversity.

State the uses of GIS and describe why GIS is useful in monitoring biodiversity or change over time. Students will also be able to identify a range of habitats that are found within school grounds. Students will be able to design and build a GIS map with support. Students will be able to use their GIS map to collect data on the biodiversity of the school grounds. Students can plot some habitats with some inaccuracies.

Produce a basic logo and company name with basic research on sustainable food and low food miles. Students will be able to make some contributions

Describe the acronym DR ABC, able to demonstrate safe working practices, excellent team work and communication skills. Able to place a partner into the recovery position. Able to complete a full and thorough primary survey with some support.

Complete a bar chart to record the species that are found in the forest school. Students should also be able to begin to evaluate the success or limitations to the investigation in their written report.

Explain how charcoal is created referring to the management methods that make it sustainable. Be able to start and maintain a fire demonstrating safe handling practices. Students should also be able to create a promotional post to highlight sustainable charcoal production.

Describe the process of an investigation and describe what mammals are found within the forest school. Students should also be able to explain why habitat surveys are completed. Students will be able to plot and produce detailed graphs and use biodiversity indices to determine biodiversity of small mammals.

Describe the uses of GIS and explain why GIS is useful in monitoring biodiversity or change over time. Students will also be able to identify a range of habitats that are found within school grounds. Students will be able to design and build a GIS map. Students will be able to use their GIS map to collect data on the biodiversity of the school grounds. Students can plot some habitats with minimal inaccuracies.

Demonstrate a good knowledge of their costings of their menu with realistic monetary values attributed to each product. Students will make valid and Explain the acronym DR ABC. Students will be able to demonstrate safe working practices, excellent team work and communication skills. They will also be able to place a partner into the recovery position and explain in what scenarios this would be needed. They will be able to complete a full and thorough primary survey. They will be able to react to real world scenarios providing a commentary of what they are doing and why.

Calculate the biodiversity index of the forest school and use graph skills to plot and record this data. Students should also be able to make recommendations for future investigations and suggestions of how to improve biodiversity within the school grounds.

Explain the importance of sustainable woodland management in the production of charcoal. Students should also be able to explain the importance of fire management to ensure a safe and controlled fire.

Complete a detailed analysis of the data that has been collected, to evaluate the current state of biodiversity within the school grounds. Student should then be able to explain what could be done to improve this biodiversity. Students will be able to accurately produce detailed graphs and use biodiversity indices to evaluate the small mammal population of the school grounds.

Explain the uses of GIS and evaluate whether GIS is useful in monitoring biodiversity or change over time. Students will also be able to identify a range of habitats that are found within school grounds. Students will be able to design and build a GIS map with support. Students will be able to use their GIS map to collect data on the biodiversity of the school grounds. Students will be able to accurately plot a range of habitats within the school grounds.

Demonstrate a strong understanding of the required investment to get their outdoor food shack into business, making logical and reasoned suggestions to their food choices. Students will demonstrate strong leadership during presentation and cooking practical.

to the group presentation. Students should also be able to make contributions to the execution of their outdoor food	logical suggestions during the group presentation, explaining how their menu meets low food miles and supports sustainable	
menu.	food production.	

GO FURTHER: Skills Builder

We aim to explicitly embed transferable 'Skills Builder' skills such as problem solving, aiming high and teamwork to prepare our students for higher education and employability skills for the future. This year in Environmental Studies we will focus on **TEAMWORK** including group decision making/recognising the value of others. **PROBLEM SOLVING** by exploring complex problems by analysing cause and effect and understanding through this through research. Furthermore, we want our students to **AIM HIGH** by setting goals, prioritising tasks and involving others.

How does our Curriculum cater for students with SEND?

Sandhill View is an inclusive academy where every child is valued and respected. We are committed to the inclusion, progress and independence of all our students, including those with SEN. We work to support our students to make progress in their learning, their emotional and social development and their independence. We actively work to support the learning and needs of all members of our community.

A child or young person has SEN if they have a learning difficulty or disability which calls for special educational provision to be made that is additional to or different from that made generally for other children or young people of the same age. (CoP 2015, p16)

Teachers are responsible for the progress of ALL students in their class and high-quality teaching is carefully planned; this is the first step in supporting students who may have SEND. All students are challenged to do their very best and all students at the Academy are expected to make at least good progress.

Specific approaches which are used within the curriculum areas include:

- Pairing students to allow inclusion
- Resources are accessible yet challenging
- Where appropriate support from additional adults is planned to scaffold students learning
- Hands on practical tasks.

How does our curriculum cater for disadvantaged students and those from minority groups?

As a school serving an area with high levels of deprivation, we work tirelessly to raise the attainment for all students and to close any gaps that exist due to social contexts. The deliberate allocation of funding and resources has ensured that attainment gaps are closing in our drive to ensure that all pupils are equally successful when they leave the Academy. More specifically within the Environmental Studies department, we:

- Work to identify barriers, interests and what might help each pupil make the next steps in learning by using lead practitioner research and actions to support.
- Provide students with all materials to reduce financial burden on families.

How do we make sure that our curriculum is implemented effectively?

- The Curriculum Lead is responsible for designing the Environmental Studies curriculum and monitoring implementation.
- Monitoring is validated by senior leaders.
- Staff have regular access to professional development/training to ensure that curriculum requirements are met and subject knowledge developed.
- Curriculum resources are selected carefully and reviewed regularly.

How do we make sure our curriculum is having the desired impact?

- Session observations
- Learning walks for KS3 based upon departmental priorities
- Regular feedback from teaching staff during department meetings
- Regular feedback from Middle Leaders during curriculum meetings
- Pupil Surveys
- Parental feedback