

THE VAYNOR CURRICULUM

COMPUTING ONE PAGE OVERVIEW

"Inspired to be the best that I can be!"



INTENT:



Love for Learning:

All children will have a positive, growth mindset towards computing and technology, understanding the importance in everyday life and within our world. Effective use of technology will enhance collaboration, deepen conceptual understanding, improve engagement and enable greater inclusion.



Enquiring Minds:

Children will have the ambition, skills, and expertise to thrive in a fast changing, interconnected and communication rich world, with the confidence and technical expertise to thrive. They will use technology **safely**, efficiently and understand the core principles of coding and be able to apply these across a range of situations.



World Wise:

Children will understand how to **stay safe online** and apply this to their lives by navigating the digital environment with confidence, scepticism and resilience and within their communities and the wider world. They will understand the interconnectedness of computing and logical thinking across subjects as well as understand its importance in every day life.

To ensure progression throughout each year group, Computing has been mapped into core concepts. We use Purple Mash to teach our Computing curriculum and by doing this, our children build on previous computing knowledge and skills taught and each year they see how these relate to the world and each curriculum area.

CORE CONCEPTS IN COMPUTING

Computer Science	Information Technology	Digital Literacy	Online Safety
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VAYNOR VALUES	LEARNING SUPERPOWERS 	
RESPECT		
HONESTY	Challenge Taker	Motivation
KINDNESS	Resilience	Independence
FORGIVENESS	Confidence	Creative
HAPPINESS	Empathy	Inquisitive

IMPLEMENTATION:

We have chosen to follow the Purple Mash Computing Scheme which is carefully structured programme where year groups take part in weekly lessons. These lessons cover different concepts of the computing curriculum to ensure knowledge and skills are progressive and sequenced which enables children to gain expertise in our interconnected and communication rich world. We enable them to learn how to keep themselves and others safe online by teaching online safety explicitly and incidentally in all curriculum areas.

How Computing is mapped across the school:

OUR BIG IDEAS

Term	EYFS	Year 1	Year 2	Year 3	Year 4
	Online safety is revisited in every Computing lesson and taught weekly using 2BeSafe.				
Autumn	Continuous Provision	Introduction to PM Creative Computing Data Explorers	Route Explorers The Internet Creating Pictures	Email Route Planners Branching Databases	Unpacking Hardware & Software Animation Logo
Spring		Creating & Following Instructions Animated Stories	Spreadsheets Questioning Coding	Spreadsheets Coding	Sound Stories Effective Searching Coding
Summer		Coding Technology Around Us Making Beats	Presenting Ideas Making Music	Presentations Touch Typing	Composing Beats Introduction to AI

Approach to Learning:



It is essential that the Computing curriculum provides pupils with a rich and relevant experience that inspires curiosity and creativity.



Through weekly lessons, teachers give children the skills to become responsible, respectful and competent users of technology. Children are encouraged to use computational thinking both within and beyond Computing, applying it as a problem-solving approach across the curriculum. Effective implementation by the teachers, alongside videos provided by Purple Mash, instructional guidance worked examples are faded over time to allow children's understanding to increase. The main goal is to prepare pupils to make meaningful contributions in a society where technology is every-changing, enabling them to be lifelong learners who can adapt to new opportunities and challenges.

Approaches to Recording:

- Saving work on Purple Mash or within folders on Purple Mash which is then assessed by the teacher and marked
- Photographs and digital recordings

Monitoring:



- ✓ Planning scrutinies, book trawls, pupil discussions and lesson observations
- ✓ Staff CPD
- ✓ Evaluation and reflection sessions of CPD

IMPACT:

Computing Impact Measures

With lessons being done weekly, children are able to consolidate previous learning and understanding, whilst also building upon this. Each year group can link their learning to previous years as the learning progresses. Observation, questioning and discussion is used as a method of assessing knowledge, enabling teachers to tailor future provision and increase children's academic attainment.

Tracking and Recording Assessments

Teachers use formative and summative assessment to grasp children's understanding of subjects covered. They then use assessment grids from Purple Mash to inform their judgement. This can allow teachers and the Computing lead to see trends and comparisons between groups.