


# Westfield Academy - Curriculum Information

Pupils will learn the fundamentals of computer science, information technology, and digital literacy. Key topics include programming with Scratch, understanding computer networks, data modeling using spreadsheets, and promoting internet safety. The curriculum emphasizes developing problem-solving skills, computational thinking, and responsible digital citizenship.

## Computing KS3 Y8

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<b>Lessons per 2 week cycle</b>	2	
<b>Specification/Board details/Key stage</b>		

## Term by term

Autumn 1	Spring 1	Summer 1
<ul style="list-style-type: none"> <li>➤ Operating systems</li> <li>➤ AI</li> <li>➤ Components</li> </ul>	<ul style="list-style-type: none"> <li>➤ Networks</li> <li>➤ Topologies</li> <li>➤ Network security</li> </ul>	<ul style="list-style-type: none"> <li>➤ Formatting</li> <li>➤ Formulas</li> <li>➤ Charts</li> </ul>
Autumn 2	Spring 2	Summer 2
<ul style="list-style-type: none"> <li>➤ Web design</li> <li>➤ Html</li> </ul>	<ul style="list-style-type: none"> <li>➤ Python turtle</li> </ul>	<ul style="list-style-type: none"> <li>➤ Photo editing</li> <li>➤ copyright</li> </ul>
<b>Key Skills developed</b>	analytical thinking, critical thinking, quantitative skills, research skills, communication skills and problem-solving skills	
<b>Useful Websites</b>	<a href="https://code.org">https://code.org</a> <a href="https://scratch.mit.edu">https://scratch.mit.edu</a> <a href="https://www.tynker.com">https://www.tynker.com</a> <a href="https://www.bbc.co.uk/bitesize/subjects/zvc9q6f">https://www.bbc.co.uk/bitesize/subjects/zvc9q6f</a> <a href="https://www.codeavengers.com">https://www.codeavengers.com</a> <a href="https://lightbot.com">https://lightbot.com</a>	

Reading/Literacy requirements /Key Words	<p>Good level of English and Maths is required.</p> <ul style="list-style-type: none"> <li>■ Debug</li> <li>■ Event</li> <li>■ Iteration</li> <li>■ Loop</li> <li>■ Sprite</li> <li>■ Variable</li> <li>■ Column</li> <li>■ Formula</li> <li>■ Function</li> <li>■ Range</li> <li>■ Row</li> <li>■ Privacy Settings</li> </ul> <p>Toolbar Clone Healing</p>
Homework requirements	Quizzes, case studies, independent learning
Personal Development Links	Studying Computing enhances, critical thinking, problem-solving, communication, numeracy, research skills, and global awareness.
Trips/Visits (If applicable)	TBC