

Developing Vocabulary in Computing



Communication is a powerful tool for any individual. It ensures that voices are heard and ideas are shared. At Hindhayes, e-safety and safeguarding lessons, assemblies and class conversations weave through the structure of our community. In key stage one, dedicated half termly lessons, whole school 'values' assemblies and curriculum for life lessons reflect on empowering pupil voice, highlighting personal safety and exposing online features such as 'pop-ups'. Key vocabulary such as appropriate, password, cyber bullying and private are modelled and taught and revisited frequently. By following the teaching and learning sequences outlined by NCCE (The Teach Computing Curriculum) we ensure that consistent messages and considered progression is at the heart of our computing curriculum.

Recent research shows us that:

National Centre for Computing Education states: "When used correctly, vocabulary can unlock a wealth of understanding; however, when used inconsistently it can cause alternate conception (misconceptions) that can interfere with pupils' learning..... in many instances vocabulary acts as a label that identifies the concept. To connect a concept with the appropriate term, begin by introducing and explaining the key term, then unpack the related concept; this makes it more concrete for pupils, before you repack it and once again apply the vocabulary label.

Developing Computing teaching and learning at Hindhayes

Vocabulary tier	Tier 1	Tier 2	Tier 3
Programming	pattern, forwards, backwards, turn, left, right, steps, go, stop, robot, bee-bot, codeapillar	repeat, instructions, command, bug, de-bug, program, right angle, sequence, clear, predict, error, run (execute)	algorithm, evaluate, code
Data handling	tick, vote, most, least, group, count, favourite	tally, total, collect, greatest, least, present, title, category, column, difference, compare, most popular, least popular, program, question, data	bar chart, pie chart, axis, analyse, scale, key, attribute (property)
Multimedia	music, photo, draw, paint, write, play	program, type, app, opinion, prefer, record, fine/thick, delete, erase, landscape, portrait, save, delete	edit, evaluate, icon, object
Technology in our lives	computer, I-Pad, smartphone, inside, outside, home, work, shops, office, café, safety	information technology, desk top, scanner, mouse, security camera, speed camera, sensor, email, bar code, QR code, password, private	data, storage, stored, identify, digital footprint.