Unit: 1

TBQ - why might you plan a project?

Key Knowledge
user requirements
task lists
data collection techniques
appropriate charts
text based coding with inputs and outputs
code debugging
test plans
basic evaluation

TBQ	Key Vocabulary	Key Questions	Feedback Opportunities	Assessments
What does a user want	user requirements	why plan a project	Whole class feedback	planning docs, questionnaire, chart and final code with test plan and WWW EBI against route descriptors for key knowledge and skills
what tasks must you so in order	house style	what does a plan need to include	questioning in lessons	
what will your project look like	project plan	what ways could you collect the data you need	individual verbal feedback during lessons	
what ways could you collect the data	QR code	what might be the best way to collect it and why		
what are their advantages and disadvantages	questionnaire	what type of chart would show your data best, why		
what charts would be appropriate to show your data	input output (code based)	how do you create the user interface in VB		
how do you use VB to create a user interface	debug (debugging)	what inputs and outputs do you need		
what inputs and outputs do you need	test plan	how do you make sure the code works		
how will you test your code		how will you test the code properly		
why might you want to get feedback on your program				

Unit: 2

TBQ - why might we need laws to protect us online

Key Knowledge
understand how to use a range of technology securely
Fake news
reliability, validity and bias
structure of a webpage
use of hyperlinks, buttons and images

TBQ	Key Vocabulary	Key Questions	Feedback Opportunities	Assessments
what different types of technology do you use	hyperlink	how do you secure a device	Whole class feedback	finished webpage against route descriptors for key knowledge and skills
how can you use these securely	button	what security features could you use	questioning in lessons	
why might this be important	webpage	why might it be important to secure your devices	individual verbal feedback during lessons	
what is fake news	validity	why is fake news in the news so often		
how to spot fake news and unreliable information	reliability	how do you spot bias or unreliable information		
what do you expect to see on a webpage	bias	how do you build a webpage		
where do you expect to see it	fake news	how do you use hyperlinks and buttons		
	secure use of technology	what is the best way to use images on a webpage		

Unit: 3

TBQ - How might you present complicated information

Key Knowledge
input messages and data validation
test data
use of SUM, AVERAGE, MIN and MAX
Date time and object data types
master slides
use of images in presentations

TBQ	Key Vocabulary	Key Questions	Feedback Opportunities	Assessments
how could you make sure no one breaks your model	master slide	why use data validation in a model	Whole class feedback	final presentation against route descriptors for key knowledge and skills
why would you use extreme test data	consistent	how can you test a model	questioning in lessons	
how do you use formulae	media	how do you present data well	individual verbal feedback during lessons	
how do you format date and time	validation	what makes a good presentation		
why might master slides be useful	SUM, AVERAGE, MAX, MIN			
why might consistent images look better				

Unit: 4

TBQ - how will computers communicate in the future

Key Knowledge
flow charts symbols
simple search algorithms
Binary to decimal and back
use of variables in Scratch
selecting items in Scratch
testing and debugging

TBQ	Key Vocabulary	Key Questions	Feedback Opportunities	Assessments
why use flow charts to plan some code	variable	how do you convert from Binary to decimal and back	Whole class feedback	completed Scratch binary converter coding against route statements for key knowledge and skills
why do computers use Binary	debug (debugging)	what is a flow chart and what do the symbols mean	questioning in lessons	
how do computers search for things	Binary	how do you use a flow chart to search for things	individual verbal feedback during lessons	
how do you use variables in Scratch	Decimal (Denary)	how do you create a binary converter in Scratch		
	algorithm			
	flow chart			

Unit: 5

TBQ - why would someone hack a computer

Key Knowledge
multiple table databases
across table forms
reports and sorting
different types fo threats and how to avoid them
diffferent physical attacks
access rights

TBQ	Key Vocabulary	Key Questions	Feedback Opportunities	Assessments
how do you link tables in a database	report	how do you use cross table queries	Whole class feedback	email detailing threats and avoidaance measures, database with cross table query or reports all set against route statements for key knowledge and skills
how do you sort reports and queries	query	why use database reports	questioning in lessons	
how do hackers attack systems	Boolean	what are the different types of virus attacks	individual verbal feedback during lessons	
how can you stop them	malware	how do you avoid them		
why have access rights on a system	encryption	what are the different types of physical attacks		
	Trojan	how do you avoid them		
	virus	what should you be aware of with email attachments		
	attachment			

Unit: 6

TBQ - why choose a particular computer to buy

Key Knowledge
basic formatting in DTP
selecting hardware and software
Cloud storage and services

TBQ	Key Vocabulary	Key Questions	Feedback Opportunities	Assessments
why use a booklet to display information	Cloud storage	what are the differences in types of hwradware	Whole class feedback	completed booklet about hardware and software choices against route statements for key knowledge and skills
why choose particular hardware in a computer	Cloud services	why would you recommend specific hardware to a user	questioning in lessons	
why choose particular software in a computer	Hardware	why might someone spend more on a computer	individual verbal feedback during lessons	
why are cloud services used more frequently	Software	why might cloud storage be a good option for someone but not others		
	text wrapping	how do you use DTP to display information in a booklet		
	alignment			

		margin			