KNOWLEDGE OVERVIEW GRID								
	Subject: Computing				Year Group: 2			
[20]	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
BRAMHOPE Branch College	THEORY – IT AROUND US	HOUR OF CODE COURSE B	MICROSOFT WORD	HOUR OF CODE COURSE B PART 2	DIGITAL MUSIC	PICTOGRAMS		
NC Objectives Covered (Taken directly from the National Curriculum)	Recognise common uses of information technology beyond school  Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Select, use and combine a variety of software to design and create a range of programs, systems and content.  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Select, use and combine a variety of software to design and create a range of programs, systems and content.  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Select, use and combine a variety of software to design and create a range of programs, systems and content.  Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact		
Digital Literacy Strand	Privacy and Security AUP Password setting	Online Relationships and Online bullying.	Health Well Being	Self-Image and Identity	Managing Online Information.  Copywrite	Online reputation		
Previous  Knowledge -What have children learnt previously that will support this next step?	Year 1 – Technology around us	Hour of Code Course A	Year 1 – adding text.	House of Code Course A	Year 1- Digital painting	n/a		
Misconceptions -What are the common misconceptions in knowledge for this unit?	Not knowing what a password does.	.Sharing the work – driver navigator. Touching the screen instead of using keyboard. That computers can read between lines – actually they just do what we ask of them	Upper and lowercase letters and the impact these can have on logging in.  Letters are not in alphabetical order. The letters are all capitals.  Some of the keys have more than one thing on them  Not understanding that all families have different rules and that it works best when there is a set of agreed family boundaries.	Sharing the work – driver navigator. Touching the screen instead of using keyboard.  That computers can read between lines – actually they just do what we ask of them		Misconceptions around the mathematical part of the unit. Ensuring that the maths is understandable for all so they can access computing fully.		

Learning	,
Sequence	9

-Detail the learning

sequence using key
questions in an ordered
sequence.
-The questions should
have a sequential build up
to answer the overall
learning challenge.

Red= Declarative knowledge ('knowing that')

Blue= procedural knowledge ('knowing how')

- 1. Acceptable Use Policy Lesson. Recap features of good programming e.g good partner work (driver navigator), what good programming looks like, what to do if I'm stuck. Driver navigator video
- 2. What is IT?
- 3. How do I use IT in school?
- 4. Can I find out about the use of technology in the world?
- 5. Can I identify the positive uses of IT?
- 6.Can I explain the need to use IT in different ways?
- **E Safety Warm Up content:**

I can explain how passwords can be used to protect information, accounts and devices.

I can explain and give examples of what is meant by 'keeping things private'.

I can describe some rules e.g passwords for keeping things private

I can explain how some people may have devices in their home connected to the internet and give examples. E.g lights, fridges.

- 1. Can I learn about technology in our classroom?
- 2 Can I understand how we use technology?3. Can I develop mouse
- 4. Can I use a computer keyboard?
- 5. Can I develop keyboard skills?
- 6. Do I know how to use a computer responsibly?
- E Safety Warm Up
  Content:
  I can give examples of
  how someone might use
  technology to
  communicate with
  others they don't know
  and why it might be risky
  I can explain who I
  should ask before
  sharing things online
  I can describe different
  ways to ask, give, deny

I can explain why I have right to say now or ask for help.

permission online.

I can identify who can help me if something happens online without my consent I can explain how it make make others feel if I don't ask their permission before sharing.

I can explain why I should always ask a trust adult before clicking yes/agree/accept online.

I can explain what bullying online is I can explain why anyone who experiences bullying is not to blame. I can talk about how anyone being bullied can get help. 1. What is a loop?

What is the

help us with

explore the

keyboard?

remove text?

3. Can I explore the

4. Can I make changes

to the text?

5. Can I explain my

Can I decide

keyboard?

E Safety Warm Up content:

I can explain how

other people may

differently online

look and act

and offline.

8. I can give examples

of issues online

etc and explain

help.

that might make

people sad worried

how they could get

7.

between pencil and

choices?

2. Can I add and

toolbar?

writing? Can I

purpose of word -

how do computers

- 2. Can I use loops with Scratch?
- 3. Can I do loops with Laurel?
- 4. Can I make an ocean scene using loops?
- 5. Can I learn about Event blocks (offline)?
- 6. Can I create a mini project?

E Safety Warm Up content:

I can explain simple guidance for using technology in different environments.

I can say how these rules help me.

- 1. Can I understand how music makes us feel?
- 2. Can I look at rhythms and patterns?
- 3. Can I see how music can be used?
- 4. Can I use notes and tempo?
- 5. Can I crate digital music?
- 6. Can I review and edit music?

E Safety Warm Up content:

I can recognise that content on the internet may belong to other people.

I can describe who other people's work belongs to them.

I can use simple keywords in search engines

I can demonstrate how to navigate to simple webpage.

I can explain what voice activated searching is.

I can explain different between made up and real online.

I can explain why some information may not be true.

- 1. What is the purpose of pictograms and can I count and compare? (offline)
- 2. Can I enter data? (Favourite fruit)
- 3. Can I create pictograms? (MiniBeast Hunt)
- 4. Can I understand what an attribute is? NB we have 'free version' so be careful to choose attributes that you can use within free templates.
- 5. Can I compare people? NB we have 'free version' so be careful to choose attributes that you can use within free templates.
- 6. Can I present information? Presenting information as a bar chart by using data button instead.

**E Safety Warm Up content:** 

I can explain how information put online about someone can last for a long time.

I can describe how anyone's online information can be seen by others.

I know who to talk to if something has been put online without consent or if it is correct.

Curriculum End	Children have an understanding of	Course B Lessons 1-6 completed. Each lesson	Children create a poster using previously	Course B Lessons 6- 12 completed. Each lesson allows for	Children can create their own digital music piece	Children can complete a pictogram.
Points -What will children know and be able to do by the end of the unit? -What will the children produce to demonstrate this knowledge?	technology specifically in the classroom	allows for completion of Hour of Code task to meet procedural knowledge	scaffolded content loaded onto pupil desktop. THEY ARE EMBEDDDING SKILLS FROM YEAR 1	completion of Hour of Code task to meet procedural knowledge		
Knowledge Sentences -Using the end points, what are the key statements children need to remember by the end of the unit? (I know that)  (To share with children when it is taught during the unit)	I know that IT stands for Information Technology and is the use of any computers to create, process or store electronic data.	I know that a computer needs a screen, a keyboard and a mouse.	I know that Microsoft Word is a piece of software used to create and present information.  On Microsoft Word I can: -Add or remove textuse the toolbar at the top of the screen to edit my work.  To be safe online, I must:  1) Alert an adult if something worries me.  2) Always be with an adult when on a device.  3) Turn the off the device if something worries me.  I know that acceptable behaviour when using technology is:  1) Look after the device.  2) Listen to the adult who will help me.  3) Not to talk to strangers online.  4) Use respectful language.	I know that algorithms are a set of rules to be followed in order that can help when problemsolving.  I know that the features of good programming include:  1) thinking about the most efficient way to achieve an outcome.  2) be able to test that your code works effectively.  To make my programme work I must:  1. Apply loops	I know that a rhythm is a repeated pattern of sound.  I know that a note is a symbol to tell us pitch and duration.  I know that a tempo is the speed of which the music is played.	I know that a pictograms are types of charts and graphs that use icons and images to represent data.  I know that an attribute is something that defines a property of an object.
Key Vocabulary (To share with children and add to working walls/knowledge mats)	Event blocks Block coding Debug Algorithim	Mouse Keyboard Space bar etc.	Event blocks Block coding Debug Algorithim		Sounds, patterns, rhymthm, melody, computer composition	Counting, comparing, attribute, pictogram.

	Enrichment Activities (trips, residentials, speakers, SMSC)	Digital Leader assembly	Parent Workshop linked to Parents evening.	Change One Thing Competition  Digital Leader Parent Presentation ' Parenting in a digital world'. (SharePoint/Annual Events)	Digital Leader assembly	Digital Leader assembly	Digital Leader assembly
What does this look like at Bramhope?	Physical Resources (artefacts)	Digiduck  Teach Computing Files on Theory Unit	Digiduck  Digiduck	Teach Computing Digital Writing  PLEASE NOTE THIS UNIT IS SHARED YEAR ½. WORK ACROSS YEAR GROUPS SO SKILLS TAUGHT IN YEAR 1 THEN EMBEDDED AND PRACTISED IN YEAR 2.	Digiduck  Digiduck	PLEASE NOTE THIS IS A NEW UNIT – LINK TO PLANNING BELOW IS A GUIDE BUT MAY NOT FIT DIRECTLY WITH MS PAINT ON LAPTOPS – IT WILL NEED APADPTING POTENTIALLY AND SLIDES AMENDING FOR MS PAINT.  Digiduck	Use following website to load Pictograms. It is not a paid for website so please note if there are issues with functionality.  J2E Pictogram Website  PLEASE NOTE THIS IS A NEW UNIT – LINK TO PLANNING IS A GUIDE BUT WILL NEED APAPTING IN ADVANCE OF TEACHING.  Digiduck  Digiduck
	Cross Curricular learning (Include opportunities for writing and quality texts)	NA	NA	Change One Thing Competition Link	NA	Link to art - Kadinsky.	

Local Learning including outdoor learning	NA			
Opportunities for cultural Diversity	NA		PowerPoint linked to history/science/geography topic.	