

K.S3 – ICT

I know that I am at LEVEL 1 because

- I know that there are different sorts of information, such as writing, pictures, and sounds
- I have begun to use a computer to show people things and talk about my ideas
- I can give signals and instructions to many devices I use everyday (such as televisions, microwave cookers, music players, etc) I know that giving different instructions and signals will make them do different things.
- I can tell other people how I use computers

I know that I am at LEVEL 2 because

- I can write something on the computer and change it around so that it makes sense and looks good
- When I learn new things, I can add this to work I have already done
- I can save my work and get it back again, whenever I want to
- I know how to show things that I have made to other people
- I can make and share pictures, tables, sounds and words when I need to
- I have used computers to explore adventure games and puzzles and I can talk sensibly about things I have found

I know that I am at LEVEL 3 because

- When somebody asks me a question, I can find out what I need using the internet or computer encyclopaedias
- Most of the time I can tell the difference between useful information and information that isn't helpful
- I can make a piece of work on a computer, think about it, and improve it so that other people can understand it
- I know how to control some electronic devices by giving them lists of instructions
- I can use a computer game or simulation to find out how things work or to solve "what if ..." questions
- I can talk confidently about how I use computers, telephones, the internet, and other areas of ICT when I am at home and when I am in school

I know that I am at LEVEL 4 because

- I understand that when I am looking for information, I must be very careful about the questions I ask. I know that some questions will not give me sensible answers and that others will give me information that does not matter.
- When computers give me information, I can say what it means. For example, I can look at graphs and charts and talk sensibly about them. I don't always believe what the computer says. I know that if I put untrue or stupid information into a computer, I will get untrue or stupid answers

- I can put together different types of information and present the results in different ways. For example, I can put graphs, pictures, writing and sounds that I have made into a PowerPoint presentation.
- I think carefully about the people who will see my work. I make sure that it will give them the sorts of things they will need
- I know how to give a computer instruction so that it can work another device. (For example, traffic lights)
- I know that a computer can record things that have happened automatically. For example, my class have done things such as record the movements of the class gerbil over a weekend
- I can use more complicated simulations and models and I can talk sensibly about the things that might happen if I change the way it works
- I can talk in an interesting way about how I use ICT and why it might be better or worse than other ways of doing things

I know that I am at LEVEL 5 because

- I can choose the information I need to do a number of tasks without being told. I can organise projects which need a number of ICT tools and use them to as and when they are needed
- I can make sensible decisions about whether information is accurate or not
- I can organise information so that a computer can process it
- I think very carefully about the way that my work will be seen by others and design things with specific reasons and people in mind
- I share my work with other people in a number of ways including e-mail
- I know how to give computer instructions so that it can work other devices. I know that careful instructions, which do things efficiently, are better than many “loose” ones
- I can use a computer to record events automatically. For example, I can use a data logger to record temperatures overnight
- I think carefully about the work that I have done. I am able to use what I have learned in one piece of work to improve the next

I know that I am at LEVEL 6 because

- I develop and refine my work and I use information from many places to do so
- I know how to use complex searches to test if my ideas are true or false
- I know how to present my ideas in many ways (for example, as a spreadsheet, graph, report or animation)
- I am very keen to make sure that the way I present things fits exactly with the people who will see it
- I can work out complex sequences of instructions for controlling, monitoring, and measuring multiple events. I understand about efficiency
- I can predict what is going to happen when I make a computer-based model. I can change the rules and make it operate differently if I wish.

I know that I am at LEVEL 7 because

- I can combine information from lots of places and use it to make a presentation to show to different audiences
- I understand the advantages and disadvantages of different information-handling applications
- I know how to select and use information systems suited to my work translating what people want into a language required by the system
- I can use ICT to measure, record and analyse physical variables and control events
- I can design ICT-based models and procedures with variables to meet particular needs
- I can consider the benefits and limitations of ICT tools and information sources, I can then talk about these when evaluation my work

I know that I am at LEVEL 8 because

- I can find and use appropriate information sources and ICT tools for specific tasks, taking into account ease of use and suitability
- I know how to design successful ways to collect and prepare information for processing
- I can design and implement systems for others to use
- When developing systems that respond to events, I can make appropriate use of feedback
- I can take part in class discussions about ICT and its impact on social, economic, ethical and moral issues

Exceptional Performance

- I can evaluate software packages and ICT based models, understanding the reasons they were developed and their efficiency, ease of use and appropriateness
- I can suggest refinements to existing systems and design and create my own system for others to use. I can also predict some of the consequences that could arise from using the system
- I can discuss my own and others use of ICT and use my knowledge and experience of information systems to comment on social, economic, political, legal, ethical and moral issues raised by ICT.