SANDFIELD SCHOOL

ICT/ COMPUTING CURRICULUM STATEMENT

INTENT:

What is the curriculum aim / vision for this subject?

Pupils to:

- Have at least basic/ functional ICT skills to access technology in real life situations.
- Use skills in a variety of different environments.
- Enjoy the subject.
- Keep safe online
- Link ICT skills to employability skills
- Provide essential knowledge that pupils need to be good citizens
- Have knowledge and understanding of Men and Women in ICT/Computing over time- Bill Gates, Steve Jobs, Women in computing i.e. Ada Lovelace (first computer programmer) and Carol Shaw (first woman video game developer) (Cultural Capital)

What do we expect students to get from this subject?

- Enjoyment and challenge of the subject.
- Achieve or exceed their expected progress, accreditation or qualification.
- Use their ICT skills and knowledge to make a positive contribution to the workplace and society.

How is our curriculum planned?

Using the National Curriculum as a foundation, we want to equip pupils to use computational thinking and creativity to understand and change the world. We want to ensure that our pupils become digitally literate and use, express themselves and develop their ideas through information and communication technology. It will be taught a at level suitable to the needs of our pupils, whether it is in relation to their EHC Plans, medical needs, mental health and well-being. This will also link to our pupils being able to function at a suitable level in the workplace and as active participants in a digital world.

Pupils are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through programming

Building on this knowledge and understanding, pupils are equipped to use information technology to create programs, systems and a range of content.

Educational visits are planned and link to programmes of work eg, to Apple, Amazon, FACT (Virtual Reality)

IMPLEMENTATION:

How does learning develop over the five years?

Going to be working with NCCE to put a plan/sequence together.

Ideas KS3, KS4 and KS5

- **ICT Functional skills basics**
- **Animation**

- **Video**
- **Audio**
- **Programming**
- **Algorithms**
- **Debugging**
- **Online Safety**
- **ASDAN Towards Independence Modules (Using ICT and Esafety)**
- **Entry Level Functional Skills ICT**

- Students follow a differentiated curriculum for Computing that links to statutory guidance of Computing national curriculum
- Students will be able to use computing skills and knowledge in other parts of cross- curricular learning
- Students develop conceptual fluency in order to problem solve and reason mathematically.
- Ensure pupils are able to develop basic concepts in order to move forward and make progress.
- Stimulating lessons to motivate students and help them to understand the implementation of the subject to enable them to apply it in the 'real' world and the work place.

What principles have guided our decision making in developing this curriculum? What is distinctive about our curriculum?

- We follow the National Curriculum for Computing from KS1- KS3, and KS4 if appropriate.
- Small class sizes (8-10 pupils) aid the setting of personalised targets for the students.

How is the timetabled curriculum supplemented or enriched by other approaches to learning?

- ICT/Computing is a cross-curricular subject and can be taught in most, if not all lessons.
- Specifically timetabled lessons usually 1-2 lessons per week
- ASDAN Towards Independence modules
- ICT Functional Skills Entry Level 1, 2 and 3
- Use of BKSB and IDL Cloud

IMPACT:

Assessment of pupils work, skills and knowledge to be completed by:

- End of half term topic evaluation
- Teacher questioning
- Time given for students to reflect on feedback they've been given.
- BKSB Entry Level Diagnostic tests
- Online quizzes such as Kahoot and Quizizz (High challenge / low threat)
- Provide a reflection opportunity for teacher and learner to deal with misunderstandings.
- Qualifications and accreditations- internally and externally assessed as outlined above.

How do we know if we have a successful curriculum?

- Positive Pupil , staff and parental voice.
- Planning with clear progression.
- Evidence of learning, progress and a balanced curriculum from learning walks, scrutiny of student work,
- and lesson observations.
- ICT/ Computing skills and knowledge to improve standards across all other areas of the curriculum.
- Self-evaluation via links with other schools in the Local Authority.

- ICT and Computing encompasses every part of modern life and it is important that our children are taught how to use these tools and more importantly, how to use them safely. We believe that it is important for children, staff and the wider school community to have the confidence and ability to use these tools to prepare them for an ever-changing and rapidly developing world.
- To use ICT where appropriate to ensure pupils are motivated and inspired in all areas of the curriculum.
- Provide all staff with the training and support to ensure that they can, and have the confidence to, use ICT to its full potential in all aspects of school life.
- Use tools available to ensure children have the ability to work independently and collaboratively to suit the needs of the situation.
- Develop the ICT competence and skills of pupils through Computing lessons and provide them with the chance to consolidate these in a cross-curricular context.
- Ensure pupils are challenged in their use of ICT and are provided with exciting, creative ways in which to share their learning.
- Overall success is achieved once pupils leave the school either by being employed or on route to doing this.