






	Science
Vision	Science is fundamental in education and in helping pupils to understand how the world around them works. Our aim is to ensure that all pupils are equipped for the demands of further education, adulthood and the world of work.
Philosophy	Our ethos, therefore, is for all pupils to be able to successfully interact with the world they live in by working safely in a practical environment, being able to identify and mitigate risks, and understand basic terminology.
Intent – our curriculum design principles and what we intend for the young people to learn:	As with all our subjects at TDPC, we base our curriculum design around the following principles: <ol style="list-style-type: none"> 1. Feeling successful 2. Broadening horizons 3. Oracy opportunities 4. Applying core skills 5. Disciplinary thinking
Feeling successful 	<p>To foster an enjoyment and curiosity of the science using a variety of practical work across biology, chemistry and physics to engage and interest our pupils. A thematic approach to learning is adopted in science which links to the whole centre theme for the term.</p> <p>Pupils are taught the necessary skills to work safely in a practical environment; they will develop an understanding of Health and Safety within this environment enables pupils to develop and understand the need for safety which is manifest in all aspects of life.</p>
Broadening horizons 	Students at TDPC have often had disrupted learning and are likely to have had limited access to the science lab. They will be encouraged to explore the natural world, thinking about how science is evolving and changing our understanding of the world around us.
Oracy opportunities 	Students are encouraged to be confident communicators, able to ensure that they can share their ideas and provide evidence to support their thinking. Students should be able to listen to other people's ideas and ask questions to clarify their understanding
Applying core skills 	Students are encouraged to record their ideas through mind maps, lists and diagrams working towards writing short reports using their disciplinary knowledge and understanding of science. Students are encouraged to read and react to short texts.
Disciplinary thinking 	We encourage our students to think like scientists by adopting a systematic approach to understanding the natural world through observation, experimentation, and analysis. Encouraging students to think like scientists involves fostering these skills and mindsets, alongside providing opportunities for hands-on experiments, promoting inquiry-based learning, and encouraging critical thinking to help students develop a scientific approach to problem-solving
Implementation – how we teach our intent:	We teach Science in short burst, three-weekly blocks linked to the whole Centre theme.

Curriculum Design Rationale
Science

	Links with other subjects are explicitly made, and built upon in a practical way through other foundation subjects to ensure students can consolidate and transfer their knowledge and understanding across other areas of the curriculum.
Accreditation	Students following Science are currently accredited through a range of AQA Unit Awards from Entry 1 to Level 1 depending upon each young persons' level of understanding and knowledge