



# Implementation of the 7 Principles in Computing



<ul style="list-style-type: none"> <li>-Computing taught discreetly by one person. Training completed by this person - The National Centre for Computing Education Certificate in Teach Primary Computing</li> <li>- CPD videos for teacher explaining learning journey.</li> <li>-Recap notes and specific knowledge needed included into explicit lesson plan</li> <li>- 30 min directed time/week focused on delivery</li> </ul>	<ul style="list-style-type: none"> <li>-Prepared power points including explanations of key knowledge and concepts for learning.</li> <li>-Dual coding enabled and considered in development of materials.</li> <li>-30 mins directed time/week to focus on quality and clarity of explanations</li> <li>-Crib sheets provided</li> </ul>	<ul style="list-style-type: none"> <li>- Retrieval questions in built throughout topic.</li> <li>-Lesson plans include a variety of questioning strategies and suggestion for idea of pupil response</li> <li>-Suggested teacher responses and deeper thinking also supported on plans</li> </ul>	<ul style="list-style-type: none"> <li>- Weekly retrieval opportunities at the start of each lesson</li> <li>Use of computational attitudes to help feedback to feed forward</li> <li>- Coaching strategies used with children to help them problem solve</li> <li>- Continued testing and debugging until a product is refined</li> <li>- Peer assessment</li> </ul>	<ul style="list-style-type: none"> <li>-Teacher is supported with modelling through CPD provided</li> <li>-Thinking tools embedded through the units for reflection and to support learning</li> <li>-Paired modelling with University of Portsmouth students.</li> <li>-Plan to work with computing dept a TPA</li> <li>-Peer to peer</li> </ul>	<ul style="list-style-type: none"> <li>-Progression document, use of same technical language</li> <li>-Planning and structure of each lesson is similar</li> <li>-Greater understanding of disciplines used and needed in subject, as a result of discreet teaching. This leads to application of these disciplines in future lessons.</li> </ul>	<ul style="list-style-type: none"> <li>-Dual coding opportunities. E.g. between computer and workbook.</li> <li>-Consistency of language developed over time, through year groups.</li> <li>-Retrieval practice throughout lessons, specifically at the start of lessons.</li> <li>- At start of units reflect on units before</li> <li>-Reflect on skills used at the end of each unit in their online Skills Journal</li> </ul>
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