GEMS
مدرسة فاوندرز
جيمس
دبي
Founders School
DUBAI

Key Stage 3 Curriculum Map 2020-21

Term 2

Year Group: 9	Subject: Computing		
Focus/Topic	**Objectives**	**Key Skills/ UAE Links**	**Home Learning/ Recommended Reading**
• Textual based programming – Small Basic	• Decisions o Understanding basic computer decisions	• If • Else If • Else •	• One Drive • Small Basic • MS Teams
	• Iteration – For loops o The effects of basic loops	• For • Counter	• One Drive • Small Basic • MS Teams
	• Iteration – While loops o The effects of while loops	• While • Counter	• One Drive • Small Basic • MS Teams
	• Assessment – Project based		
	• Assessment – Project based		
	• Assessment – Project based		
Half Term			
• Textual based programming – Small Basic	• Assessment – Project based		
• Textual based programming – Small Basic	• Assessment – Project based		
• Cryptography - Encryption, Decryption and Keys	• "Summarise simple methods for encrypting data"	• What is cryptography • Caesar cipher and Frequency Analysis • Vignere Cipher	• See MS Teams
• Cryptography - Coding the Caesar Cipher	• "Construct a simple Caesar Cipher"	• Encrypting data	• See MS Teams
• Cryptography - Hashing Passwords	• "Establish the importance of choosing strong passwords"	• What hashing is and examples of hashing • MD5 hashing algorithm and salting	• See MS Teams

Spring Break