

Key Stage 5 Curriculum Map 2020-21

Term 1

Subject: Computer Science	Year: 13	
Focus/Topic	UAE Links	Home Learning / Reading
Induction week		
Baseline assessments, feedback, curriculum orientation and expectations		
<ul style="list-style-type: none"> • Programming paradigms - both procedural and object-oriented programming 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • Inheritance • Polymorphism paradigms 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • OO Abstraction 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • Recursive techniques <p style="text-align: center;">Assessment</p>		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
<ul style="list-style-type: none"> • Abstract data types <ul style="list-style-type: none"> ○ Stacks ○ Queues ○ Lists ○ Graphs 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams
Mid Term Break		
<ul style="list-style-type: none"> • Abstract data types <ul style="list-style-type: none"> ○ Binary Tree ○ Hashing/hash table ○ Dictionary's ○ Vectors 		Reading: Alevel textbook Home learning: as per lesson resources on MS Teams

<ul style="list-style-type: none"> • Optimisation algorithms <ul style="list-style-type: none"> ○ Dijkstra's ○ Traversals • Reverse Polish Notation 		<p>Reading: Alevel textbook Home learning: as per lesson resources on MS Teams</p>
<ul style="list-style-type: none"> • Programming linear & binary searches • Sorting algorithms 		<p>Reading: Alevel textbook Home learning: as per lesson resources on MS Teams</p>
<ul style="list-style-type: none"> • Entity Relationship Modelling • Database design • SQL • 		<p>Reading: Alevel textbook Home learning: as per lesson resources on MS Teams</p>
<ul style="list-style-type: none"> • Big Data • Mock skeleton program preparations 		<p>Reading: Alevel textbook Home learning: as per lesson resources on MS Teams</p>
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Spring Break		