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| --- | --- | --- | --- | --- | --- |
| Grade | TG. | Breadth | Depth | Presentation | Understanding |
| A/A\* |  | ALL | **LINK / FORMULATE**Create, Generate, Hypothesis, Reflect, Theorise, Consider | QuadCore | QuadCore |
| B/C |  | MOST | **EXPLAIN / ANALYSE**Apply, Argue, Compare, Contrast, Criticise, Relate, Justify | DualCore | Dual Core |
| D/E |  | SOME | **DESCRIBE / IDENTIFY**Name, Follow Simple Procedure, Combine, List, Outline | SingleCore | Single Core |
| U |  | FEW | Very little depth of understanding shown |  |  |
|  |  | **MY ASSESSMENT GRADE IN THIS TOPIC IS:** |



**12 – Web technologies (AS / A Level)**

**UNIT 1**

**Examination Questions**

1. Paintball is a game where teams of players compete in an arena or outdoor zone shooting each other with pain gun pellets. A local paintball centre has just invested in new high tech body armour which contains sensors. The players wears this body armour during the games and it automatically keeps tracks of how many times they have been hit by a paintball.

Below is an extract from the Paintball company’s website:

**Paintball Ultimate**

Come choose us for the *Ultimate* experience, we provide you with

* 200 Free paintballs
* Protective eye gear
* Paintball gun
* Full training

The web page is written in plain HTML

Produce some HTML code which might have been used to produced this page.

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1. Development of the website is being taken over by another company. They have suggested it should be modernised as it just uses straight HTML. They have suggested including CSS and JavaScript to bring it more up to date. Explain what each of these web technologies are and suggest one way in which each could be used to enhance the web site.

**Explanation of CSS** ………………………………………………………………………………………………….……..

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**Suggestion** …………………………………………………………………………………..……………………….……..

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**Explanation of JavaScript** ………………………………………………………………………………………….……..

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**Suggestion** …………………………………………………………………………………..……………………….……..

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Specification Points / Learning Objectives: **Core text book page ref: 219-232**

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| --- | --- | --- |
| **AS Level** | **A Level** | **Specification point description** |
| 1.3.3a | 1.3.4a | HTML, CSS and JavaScript |
|  | 1.3.4b | Search engine indexing |
|  | 1.3.4c | PageRank algorithm |
|  | 1.3.4d | Server and client side processing |
| 1.3.3b | 1.3.1a | Lossy vs lossless compression |

**Note:** The AS “Web technologies” technique 1.3.3b which is examined at the end of AS instead forms part of the full A Level only module on “Compression, Encryption and Hashing” and is thus reassessed at the end of the full A Level under that module.

Expectations / Learning Outcomes:

* Terms 147-153 from your **A Level Key Terminology** PowerPoint should be included and underlined.
* You must include an annotated example of a short piece of HTML, CSS and JavaScript code.
* You must include a comparison of server and client side processing, what occurs where and why?
* You must include a comparison of lossy vs. lossless compression.

How To Improve:

**My Response Is:** (Set yourself specific targets / objectives as to how you will achieve your HTI)