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UNITED ARAB EMIRATES
MINISTRY OF EDUCATION



الإمارات العربية المتحدة
وزارة التربية والتعليم

Design and Technology

Grades 1-8

Term 1 Practical Summative Assessment Specifications

2019 / 2020 Academic Year

Academic Year 2019/2020: Term 1 Practical Summative Assessment Specifications

| Grade 1 | | | |
|----------|---------|--|--|
| Marks | Time | Task Description | Domain/Skills |
| 20 marks | 90 mins | <p>Teachers should prepare required materials during week 9.</p> <p>UNIT 5 STREAM Project in the Activity Book:</p> <ul style="list-style-type: none"> • Students must build a basic car that moves forward when pushed. • Students should consider the shape of the car, its' weight, the shape of the tyres etc. to make sure the car travels as far as possible. • Students may use a balloon, rubber band or any other suitable method to propel the car forward. | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • An understanding of the project requirements • Awareness of material properties • Awareness of shapes • Their ability to create a model • An understanding of how to measure distance • An understanding of how to test a model • Knowledge of how to improve a model. |

| Grade 2 | | | |
|----------|---------|--|--|
| Marks | Time | Task Description | Domain/Skills |
| 20 marks | 90 mins | <p>Teachers should prepare required materials during week 9.</p> <p>UNIT 5 STREAM Project in the Activity Book:</p> <ul style="list-style-type: none"> • Students must build a basic car that moves forward when pushed. • Students should consider the shape of the car, its' weight, the shape of the tyres etc. to make sure the car travels as far as possible. • Students may use a balloon, rubber band or any other suitable method to propel the car forward. | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • An understanding of the project requirements. • Awareness of material properties. • Awareness of shapes. • Their ability to create a model. • An understanding of how to measure distance. • An understanding of how to test a model. • Knowledge of how to improve a model. |

Academic Year 2019/2020: Term 1 Practical Summative Assessment Specifications

| Grade 3 | | | |
|----------|---------|--|--|
| Marks | Time | Task Description | Domain/Skills |
| 50 marks | 90 mins | <p>Task based on Activity 5 in the Activity Book</p> <p>Theoretical & Planning (20 marks):</p> <ul style="list-style-type: none"> • Students should choose/specify a functional item to design. • Students will plan the features of their design. • Students will answer questions about the 3D printing process. • Students will sketch 3 different ideas. <p>Practical & Evaluation (30 marks):</p> <ul style="list-style-type: none"> • Students will create their design using 3D modelling software. • Students will evaluate their design. | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • Awareness of the design process. • Knowledge of different product features. • Awareness of 3D printing and size restrictions. • Knowledge of 3D modelling software. • Awareness of how to evaluate a design. |

| Grade 4 | | | | |
|----------|---------|------|---|--|
| Marks | Time | Unit | Task Description | Domain/Skills |
| 50 marks | 90 mins | 3&4 | <p>Practical (30 marks): Students will use block-based programming to create an animation to include at least 2 objects and a backdrop.</p> <p>Theoretical (20 marks): Students will answer 5 fill in the blank and 5 matching about variables, conditional statements, animation, message and sensing blocks. Students will read a given code and answer 5 true/false questions related to it.</p> | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • Ability to use and understand 'Loops.' • Ability to use and understand 'sensing blocks'. • Ability to use and understand sounds. • Ability to use and understand 'motion blocks'. • Ability to use and understand 'message blocks'. • Ability to use and understand 'conditional statements.' • Ability to understand 'variables'. |

Academic Year 2019/2020: Term 1 Practical Summative Assessment Specifications

| Grade 5 | | | | |
|----------|---------|-------|--|--|
| Marks | Time | Unit | Task Description | Domain/Skills |
| 50 marks | 90 mins | 3 & 4 | <p>Practical (30 marks): Students will design and make a 3D game with a scoring system.</p> <p>Theoretical (20 marks): Students will answer 5 questions identifying characters and actions. Students have to understand and identify programming commands.</p> | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • How to create a new world with a terrain. • Modify and enhance the terrain to make it interesting. • Program a character to move, jump, bump and inspect objects in this terrain. • Allocate points for completing certain actions. • The game should display a message when a certain number of points are scored. |

| Grade 6 | | | | |
|----------|---------|------|---|---|
| Marks | Time | Unit | Task Description | Domain/Skills |
| 50 marks | 90 mins | 4 | <p>Practical (30 marks):</p> <ul style="list-style-type: none"> • Students will create a block-based program to display numbers and letters on the LED grid. • Students will change the colours of the NeoPixels lights. • Add suitable comments to the program <p>Theoretical (20 marks):</p> <ul style="list-style-type: none"> • Students will complete a flowchart for the program • Students will select and write the answers to the question about the block-based program they have used . | <p>This task will ask students to program the microcontroller to:</p> <ul style="list-style-type: none"> • Run loops. • Counting. • Change colours of NeoPixels lights. <p>Apply flowchart skills.</p> |

Academic Year 2019/2020: Term 1 Practical Summative Assessment Specifications

| Grade 7 | | | | |
|----------|---------|-------|---|---|
| Marks | Time | Unit | Task Description | Domain/Skills |
| 50 marks | 90 mins | 3 & 4 | <p>Practical (30 marks): Students will complete 2 programming tasks incorporating ‘if’ and ‘for’ commands. Students should be able to output a range of numbers.</p> <p>Theoretical (20 marks):</p> <ul style="list-style-type: none"> • Students will complete a flowchart for the program. • Students will identify errors in given code. | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • Use of ‘if’ and ‘for’. • Output a range of numbers. • Flowchart skills. • Identifying errors in code. |

| Grade 8 & Grade 8 ASP | | | | |
|-----------------------|----------|------------------------------------|--|--|
| Marks | Time | Units | Task Description | Domain/Skills |
| 50 marks | 135 mins | Unit 1 (pages 34-53 only) & Unit 2 | <p>Practical – 90 mins (30 marks): Students will design a functional product. They will draw isometric and orthographic views. Then, they will use a 3D modelling tool to create their design.</p> <p>Theoretical – 45 mins (20 marks):</p> <ul style="list-style-type: none"> • Students will answer 10 multiple choice questions (MCQs) about a technical drawing. • Students will evaluate a design based on SWOT analysis. | <p>This task will ask students to demonstrate:</p> <ul style="list-style-type: none"> • Ability to sketch isometric view. • Ability to Sketch orthographic projections. • Use 3D modelling tool to create design. • Entrepreneurship. • Ability to extract information and answer question about a technical drawing. • Ability to evaluate a design based on SWOT analysis. |