



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Year 7 and 8 Technology Mandatory - Digital Technologies
Topic	Coding Samples
Class Teacher	Wait, Campbell
Head Teacher	D. Wait
Year	7
Date Given	Week 4/5
Date Due	Week 9
Weighting	30% of Digital Technologies Strand

Students must complete three assessment items for this assessment task/unit. They will be required to:

Part 1 – Development of Online Tools to record techniques learnt with Coding (5%)

- Student are required to organise a tab in the class OneNote that has all the required sections to record the skills they have demonstrated through with each challenge.

Part 2 – Perform the following skills (Teachers will model all skills required in class). (20%)

- Upload a picture of the most complex coding sketch, including pseudocode, you completed for each of the following challenges:
 - Lights (LED)
 - Button
 - Potentiometer
 - LDR
 - Buzzer

(clearly identify each sketch)

- One 15 sec video explaining how the Arduino program works and how you check that your code works

Part 3 – Evaluation (5%)

- Student comprehensively evaluates the skills they have learnt through the term and initial stages of coding. (See evaluation scaffold for support)

Non-completion of Task:

If you know you are going to be away on the day that the task is due, you must make alternative arrangements with your teacher beforehand. If you are suddenly away on the day that the task is due, you must contact your teacher or Head Teacher on your return to school. Documentation will be required in both classes.

Plagiarism:

Plagiarism, the using of the work of others without acknowledgement will incur serious penalties and may result in zero award. Any cheating will also incur penalties.

Failure to follow the above procedures may result in a zero award.
The policies and procedures that are outlined on the ROSA booklet will be followed regarding the non-completion of assessment tasks.

Common grade scale Stage 4 TAS
Task mark allocation

A 10-9	The student has an extensive knowledge and understanding of the content and can readily apply this knowledge. In addition, the student has achieved a very high level of competence in the processes and skills and can apply these skills to new situations.
B 8-7	The student has a thorough knowledge and understanding of the content and a high level of competence in the processes and skills. In addition, the student is able to apply this knowledge and these skills to most situations.
C 6-4	The student has a sound knowledge and understanding of the main areas of content and has achieved an adequate level of competence in the processes and skills.
D 3-2	The student has a basic knowledge and understanding of the content and has achieved a limited level of competence in the processes and skills.
E 1-0	The student has an elementary knowledge and understanding in few areas of the content and has achieved very limited competence in some of the processes and skills.

Outcomes Assessed

TE4 -7DI – Explains how data is represented in digital systems and transmitted in networks

TE4-4DP – Design algorithms for digital solutions and implements them in a general purpose programming language

Technology Mandatory – Digital Technologies

<u>Outstanding</u> <u>(10-9)</u>	<u>High</u> <u>8-7</u>	<u>Sound</u> <u>6-5</u>	<u>Basic</u> <u>4-3</u>	<u>Limited</u> <u>2-1</u>
<p>Outcome: - TE4 -7DI – Explains how data is represented in digital systems and transmitted in networks</p> <p>Outcomes – TE4-4DP – Design algorithms for digital solutions and implements them in a general purpose programming language</p> <p>Task : Students are required to use coding/programming language to input algorithms to perform a range of different functions. Students are then required to record the process and upload it to the E portfolio to show how they have successfully completed the task.</p>				
<ul style="list-style-type: none"> • Student has a OneNote tab clearly laid out with all components of task easily identified 	<ul style="list-style-type: none"> • Student has a OneNote tab with all components of task easily identifiable 	<ul style="list-style-type: none"> • Student has a OneNote tab with most components of task identifiable 	<ul style="list-style-type: none"> • Student required significant teacher assistance to include work in OneNote 	<ul style="list-style-type: none"> • Student has not attempted to upload work to OneNote
<ul style="list-style-type: none"> • Students independently set up an Arduino board and link it to their device, independent trouble shooting 	<ul style="list-style-type: none"> • Students successfully set up an Arduino board and link it to their device. Trouble shoot with peers 	<ul style="list-style-type: none"> • Students set up an Arduino board and link it to their device. Trouble shoots with teacher assistance 	<ul style="list-style-type: none"> • Student can link board to laptop with teacher assistance. 	<ul style="list-style-type: none"> • Student require significant support to set up Arduino board links it their device
<ul style="list-style-type: none"> • Student can successfully independently write a pseudo-code for all 4 sketches 	<ul style="list-style-type: none"> • Student can successfully write a pseudo-code for 3 of the sketches 	<ul style="list-style-type: none"> • Student has attempted to write a pseudo-code for 2-3 sketches 	<ul style="list-style-type: none"> • Student works closely with the teacher to write a pseudo-code for one sketch 	<ul style="list-style-type: none"> • Student cannot write a pseudo-code
<p>Students successfully writes complex code for the following challenges</p> <ul style="list-style-type: none"> • Button • Potentiometer • LDR • Buzzer • LED 	<p>Students successfully writes complex code for most of the following challenges</p> <ul style="list-style-type: none"> • Button • Potentiometer • LDR • Buzzer • LED 	<p>Students writes code for most of the following challenges</p> <ul style="list-style-type: none"> • Button • Potentiometer • LDR • Buzzer • LED 	<p>Student attempts to write code for some of the challenges with teacher input.</p> <ul style="list-style-type: none"> • Button • Potentiometer • LDR • Buzzer • LED 	<p>Student has not attempted to write code for the challenges.</p>
<ul style="list-style-type: none"> • Video clearly demonstrating an outstanding knowledge of coding and the Arduino program. 	<ul style="list-style-type: none"> • Video clearly demonstrating an excellent knowledge of coding and the Arduino program. 	<ul style="list-style-type: none"> • Video demonstrating a knowledge of coding and the Arduino program. 	<ul style="list-style-type: none"> • Video clearly basic knowledge of coding and the Arduino program. Completed with teacher assistance. 	<ul style="list-style-type: none"> • No evidence of videos included or documentation of steps
<ul style="list-style-type: none"> • Student comprehensively evaluate the project 	<ul style="list-style-type: none"> • Student evaluate the project without overall justification 	<ul style="list-style-type: none"> • Students provides positives and negatives of the project 	<ul style="list-style-type: none"> • Students list positives or negatives of the project 	<ul style="list-style-type: none"> • Student does not evaluate the project