



Cambridge International AS & A Level

INFORMATION TECHNOLOGY

9626/04

Paper 4 Advanced Practical

February/March 2023

2 hours 30 minutes



You will need: Candidate source files (listed on page 2)

INSTRUCTIONS

- Carry out every instruction in each task.
- Save your work using the file names given in the task as and when instructed.
- You must **not** have access to either the internet or any email system during this examination.
- You must save your work in the correct file format as stated in the tasks. If work is saved in an incorrect file format, you will **not** receive marks for that task.

INFORMATION

- The total mark for this paper is 90.
- The number of marks for each question or part question is shown in brackets [].

This document has **8** pages. Any blank pages are indicated.

You have been supplied with the following source files:

Stars.svg

Gantry.svg

Sales.ods

JS Task.html

Create a folder called **Examination**. You must save all your work in this folder.

Copy these files into this folder.

Do **not** delete these files when submitting your work.

You must use the most efficient methods to solve each task. All work produced must be of a professional standard and contain your candidate details.

Task 1 – Vector graphics

Create an accurate copy of this spaceship.

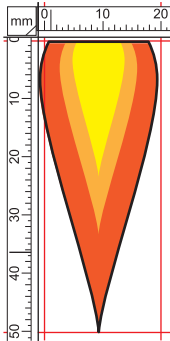
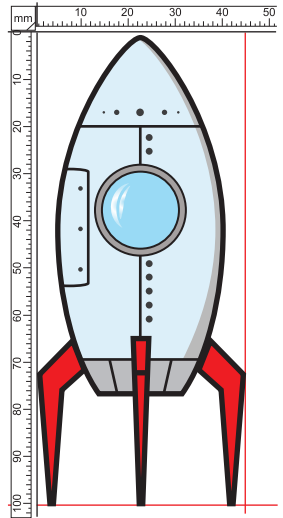
Make sure you match the proportions and details very closely.

The rulers and guidelines shown are for information only.

Save the image as an **svg** file named **SpaceShip_** followed by your centre

number_candidate number

e.g. SpaceShip_ZZ999_9999



Create a copy of this rocket burner flame.

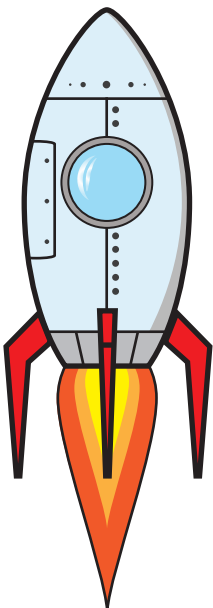
Make sure you match the proportions and details very closely.

The rulers and guidelines shown are for information only.

Save the image as an **svg** file named **Flame_** followed by your centre number_

candidate number

e.g. Flame_ZZ999_9999



Combine the images to create a copy of this image.

Make sure you match the proportions and details very closely.

Save the image as an **svg** file named **Rocket_** followed by your centre number_

candidate number

e.g. Rocket_ZZ999_9999

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Task 2 – Animation

Create an animation of your *SpaceShip* landing.

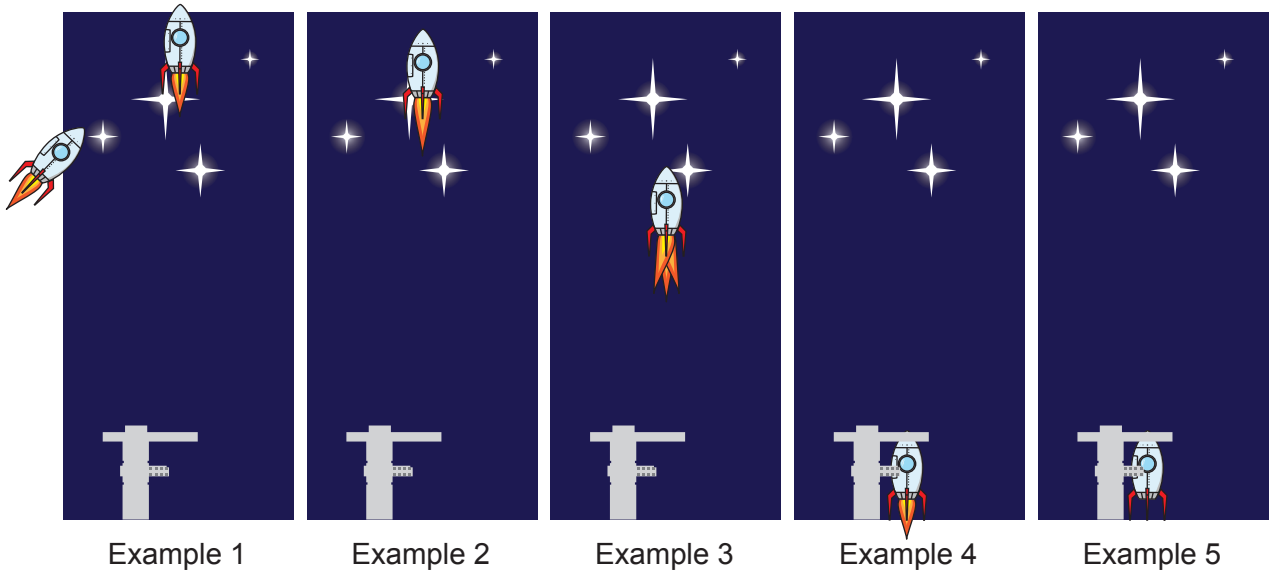
Set a frame/stage size of 900 pixels high and 400 pixels wide.

Set the colour of the stage to dark blue (#000033).

Add the **Stars.svg** and the **Gantry.svg** images to create the stage exactly as shown.

Note: The spaceship travels in front of the Stars and stops behind the Gantry.

Use the images you created in task one to create the following sequence.



The spaceship must enter the stage from the left as shown and take 1 second to rise above the top of the frame.

Make sure you match the size of the spaceship, the size of the flame and their positions as shown in Example 1.

The spaceship must then take 4 seconds to descend smoothly with the flames changing as shown in Examples 2, 3 and 4.

Note: the size of the flame in each example.

1 second after the spaceship has landed the flame must disappear as shown in Example 5.

Save your animation as an **animated gif** file named **Landing_** followed by your centre number_

candidate number

e.g. Landing_ZZ999_9999

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[illegible]

Name	Range
data	C5:G14
times	B5:B14
days	C4:G4

	I	J	
		Time period	
Select time period		Morning	
		Morning	
		Afternoon	
		All day	

In cells K5:O5 add formulas to calculate the total sales for the time period selected from the drop down list.

I	J	K	L	M	N	O
	Time period	Day				
Select time period	Afternoon	Mon	Tue	Wed	Thu	Fri
	Sales	19	19	18	17	12

	I	J	K	L	M	N	O
	Time period	Day					
Select time period	All day	Mon	Tue	Wed	Thu	Fri	
	Sales	59	57	59	60	48	

Save your workbook as a spreadsheet named **SalesData_** followed by your centre number_
candidate number
e.g. SalesData ZZ999 9999

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- (c) Copy cells A1:G14 to a new worksheet in the same workbook.
Rename the worksheet **SelectAll**

Edit and format the worksheet to look like this:

	A	B	C	D	E	F	G	H	I	J	K
1											
2											
3											
4			Mon	Tue	Wed	Thu	Fri			Day	
5								Select day and time period			Sales
6	Morning	8 AM	8	10	12	12	10				
7		9 AM	9	10	10	11	9				
8		10 AM	8	6	5	7	6				
9		11 AM	7	6	5	5	4				
10		12 PM	8	6	9	8	7				
11	Afternoon	1 PM	10	11	8	9	7				
12		2 PM	2	4	4	6	5				
13		3 PM	2	0	2	0	0				
14		4 PM	3	4	3	2	0				
15		5 PM	2	0	1	0	0				

In cell J4 add a drop down list to select the day.

I	J	K
	Day	
Select day and time period	Wed	Sales
	Mon	
	Tue	
	Wed	
	Thu	
	Fri	

In cell J5 add a drop down list to select the time period.

I	J	K
	Day	
Select day and time period	Wed	Sales
	Morning	
	Afternoon	
	All day	

In cell K5 add a formula to calculate the total sales for the selected time period of the selected day.

I	J	K
	Day	
Select day and time period	Wed	Sales
	Morning	41

Re-save your workbook.

Task 4

Open **JS Task.html** in both a browser and in a text editor.

Amend the “Click to total the sales” <button ...> code and add JavaScript so that when the button is clicked the total sales recorded for each time period are displayed in the cells as shown:

Tawara UK (Trial) Sales Recording form

Please complete all the information daily

Sales for (Select day)
 Monday ▾

Please enter the morning sale numbers here

8am	9am	10am	11am	12pm
2	5	7	1	3

Please enter the afternoon sale numbers here

1pm	2pm	3pm	4pm	5pm
11	4	6	2	1

Morning Sales figures	Afternoon Sales figures	Total Sales figures
18	24	42

Click to total the sales

Amend the selection code and add JavaScript so that when a new day is selected the data in all the cells is cleared.

Sales for
 Tuesday ▾

Please enter the morning sale numbers here

9am		11am

Please enter the afternoon sale numbers here

Save the web page as **SalesForm_** followed by your centre number_candidate number
 e.g. SalesForm_ZZ999_9999.html

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