



# 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.*

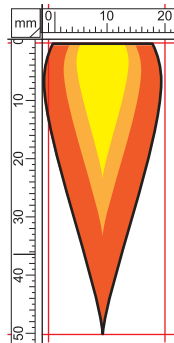
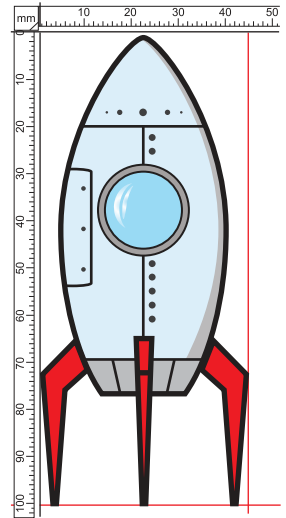
### Task 1 – Vector graphics

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

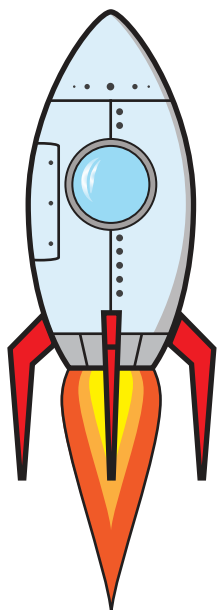


Create a copy of this rocket burner flame.

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.

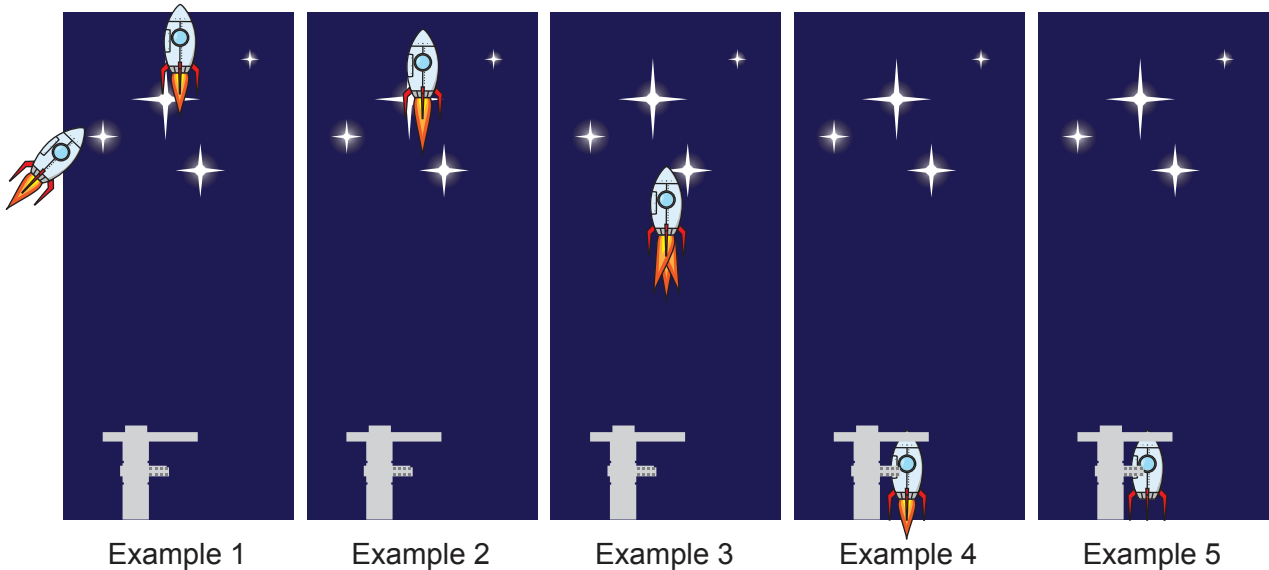
Set a frame/stage size of 900 pixels high and 400 pixels wide.

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

Edit and format the worksheet to look like this:

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

In cells K5:K7 add formulas to calculate the total sales for each period of the selected day.

For example with Wednesday selected it will look like this:

I	J	K
	Day	
Select day	Wed	Sales
	Morning	41
	Afternoon	18
	All Day	59

Re-save your workbook.

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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										Day	
4			Mon	Tue	Wed	Thu	Fri	Select day and time period			Sales
5	Morning	8 AM	8	10	12	12	10				
6		9 AM	9	10	10	11	9				
7		10 AM	8	6	5	7	6				
8		11 AM	7	6	5	5	4				
9		12 PM	8	6	9	8	7				
10	Afternoon	1 PM	10	11	8	9	7				
11		2 PM	2	4	4	6	5				
12		3 PM	2	0	2	0	0				
13		4 PM	3	4	3	2	0				
14		5 PM	2	0	1	0	0				
15											

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	
		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)

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

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

Please enter the morning sale numbers here

9am		11am
<input type="text"/>	<input type="text"/>	<input type="text"/>

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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