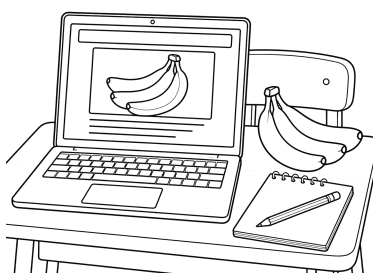


TEACHER GUIDE

ANSWERS AND MARKS

GRADE 8 · INFORMATION AND COMMUNICATION TECHNOLOGY

UNIT 6 Internet



! FOR THE TEACHER ONLY

This booklet has the answers to every exercise in the Unit 6 Student Workbook, in the same order. The exercise letters match the workbook.

i WHAT IS IN THIS GUIDE

- **Marks and pacing** - every exercise and its marks
- **Class marks record** - one page to copy for each class
- **Practicals at a glance** - what to check in 6.1 - 6.7, the web page rubric, textbook links and notes, an oral quiz
- **Answers** - chapters 1 to 4, in the same order as the workbook
- **Unit 6 Test** - the marking scheme and the common mistakes
- **Extra** - homework ideas, a practical test and the finished banana.html

★ BEFORE THE FIRST LESSON

- ☐ Every computer has a web browser and Notepad, and the Internet works.
- ☐ SafeSearch is on, and a shared folder has a small banana.jpg (Activity 6.5).
- ☐ The projector works, so you can show each step first.

"The student who builds the page learns more than the student who watches."

- THE KING OF ICT

TEACHER GUIDE

Marks and Pacing

You decide how much class time each part needs

Chapter	Exercise	Marks
Chapter 1	A True or false	6
	B Complete the mind map	5
	C Put the steps in order	5
	D Choose the best keywords	5
	E Write good keywords	5
	F Fill in the blanks	6
	G Answer these	4
	H Word search	10
Chapter 2	A Name the picture	8
	B Match them	6
	C Which one would you use?	6
	D Crossword	10
	E Answer these	4
	F History or bookmark?	6
	G True or false	6
Chapter 3	A Fill in the blanks	6
	B Good idea or bad idea?	6
	C Label the tag	5
	D Match the tag	8
	E Plan a web page	8
	F Start tags and end tags	10
	G Answer these	4
Chapter 4	A Put the code in order	8
	B Which tag made it?	8
	C Be the HTML checker	5
	D Fill in the missing words	7
	E Choose the correct answer	10
End	Unit 6 Test	40
TOTAL		217

SUGGESTED SHAPE OF ONE CHAPTER

READ	Teach the chapter pages. Students read with you and underline the key words.
DO	The practical tasks on real computers, in pairs.
WRITE	The written exercises. Walk around and help.
MARK	Mark the work together. Fill the tick boxes.



TEACHER GUIDE

Class Marks Record

Copy this page for each class

No	Student name	Ch 1 (46)	Ch 2 (46)	Ch 3 (47)	Ch 4 (38)	Test (40)	Total (217)
1							
2							
3							
4							
5							
6							
7							
8							
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10							
11							
12							
13							
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23							
24							
25							
26							
27							
28							
29							



TEACHER GUIDE

Practicals at a Glance

Practicals 1 to 8 (workbook activities 6.1 to 6.7)

Practical	Students make	Check that ...
1 (6.1)	A safe search	they typed short keywords, opened the Images and Videos lists and wrote one fact from a safe website.
2 (6.1)	Browser tools	they used a hyperlink, Back and Forward, a bookmark (the star), a new tab and the History (Ctrl + H).
3 (6.2)	banana.html	it is saved as banana.html with All Files (not banana.html.txt); the title shows on the tab.
4 (6.3)	Heading and text	the <h1> heading is centred; the sentence is italic and breaks onto two lines.
5 (6.4)	Two lists	the numbered list and the bulleted list show; the sentence is bold; every is closed.
6 (6.5)	An image	banana.jpg is in the same folder and the picture shows under the heading.
7 (6.6)	more.html + links	both links work; Back and Forward move between the two pages.
8 (6.7)	My own web page	see the rubric below.

Rubric - My own web page, Activity 6.7 (optional practical mark)

My own web page - what to look for	Marks
<html>, <head>, <title> and <body> are in the right places	2
A heading (<h1>) and a paragraph (<p>)	2
A list (or with)	1
Bold and italic text	1
A picture that shows	1
A hyperlink that works	1
It follows the plan (goal, users, layout) and is easy to read	1
Saved as myschool.html in the same folder	1
Total	10

Textbook links

Workbook	Textbook (Grade 8, Unit 6)	Activities
Chapter 1 - Search engines	pages 63 - 64	6.1
Chapter 2 - Moving around the Web	pages 64 - 65	6.1
Chapter 3 - Planning a web page	pages 66 - 68	-
Chapter 4 - Making a web page	page 69	6.2 - 6.7
Unit 6 in One Page	page 70 (Summary)	-

★ TEACHING TIP

- Turn on SafeSearch in the search engine on every computer before Practical 1.



! TEXTBOOK NOTES - SMALL MISPRINTS (THE WORKBOOK IS CORRECT)

- Page 65: the picture calls the left arrow "Forward". The left arrow is **Back**, the right arrow is **Forward**.
- Page 68: `<centre>...</center>` must be `<center>...</center>` (HTML uses the American spelling).
- Pages 68 and 69: `<a herf="...">` must be `<a href="...">`. Page 69: `</u1` needs its `>`.
- Page 68: `<h>...</h>` is written `<h1>...</h1>` (h1 to h6). "A few tabs used in HTML" means tags.
- Page 70: "tags are used to navigate" means **tabs**.
- Page 64: the **web browser** keeps the History (not the search engine). Accept both.

? QUICK ORAL QUIZ - START OR END A LESSON WITH IT

Ask the class ...	Answer
1. Name a search engine.	Google, Yahoo, Bing ...
2. What do we type in the search box?	Keywords
3. Which button opens the page you saw before?	Back
4. Which list shows the pages you visited today?	History
5. What do we click to bookmark a page?	The star
6. What does the pointer become over a hyperlink?	A hand
7. Name one thing to plan for a web page.	Goal, users, layout ...
8. Which software do we use to type HTML?	Notepad
9. Which tag puts the title on the tab?	<code><title></code>
10. Which tag makes a list with bullets?	<code></code>

ANSWERS

Chapter 1

Search engines

A True or false

6 marks

1. T	2. F	3. T	4. F	5. T	6. F
------	------	------	------	------	------

False: 2 (Notepad is software to type text), 4 (search engines also find images and videos), 6 (they show a list of websites).

B Complete the mind map

5 marks

Any five of these. 1 mark each:

Google, Yahoo, Bing, Ask, MSN, About.

Also accept other real search engines.



C Put the steps in order

5 marks

The numbers the student writes in the boxes, from the top down. The right order: open the browser, open a search engine, type the keywords, press Search, click Images.

1. 4	2. 1	3. 5	4. 3	5. 2
------	------	------	------	------

D Choose the best keywords

5 marks

1. A - Sinharaja forest animals	2. B - Sigiriya rock pictures
3. A - Sri Pada height	4. B - Kandy Esala Perahera videos
5. A - Sri Lanka national flower	

Good keywords are a few important words, spelt correctly.

E Write good keywords

5 marks

For example (1 mark each):

1. Pictures of the Temple of the Tooth in Kandy → **Temple of the Tooth pictures**
2. Videos of the elephants in Minneriya → **Minneriya elephants videos**
3. The history of the Galle Fort → **Galle Fort history**
4. Animals of the Yala National Park → **Yala National Park animals**
5. The national bird of Sri Lanka → **Sri Lanka national bird**

Accept any few important words, spelt correctly, in any order. No mark for a long sentence or for only one general word (for example "pictures").

F Fill in the blanks

6 marks

1. search engine	2. keywords	3. Search
4. list	5. videos	6. Web

G Answer these

4 marks

1. What is a search engine? (2 marks)

A website (software) that helps us to find information, images, videos and websites on the Web. We type keywords and it shows a list of websites. 2 marks for this idea.

2. Write TWO things that we can find with a search engine. (2 marks)

Any two: information, images (pictures), videos, websites. 1 mark each.



TIP: Before Practical 6, put a small banana.jpg (about 300 pixels wide) in a shared folder.



H Word search

10 marks

		I	M	A	G	E	S		Y	
							K		A	
		A	S	K			E		H	N
	W						Y		O	S
	E						W		O	M
	B		V	S	G	O	O	G	L	E
	S			I	E		R			
	I				D	A	D			
	T	G	N	I	B	E	R			
	E						O	C		
								S	H	

Word	Starts at	Direction
GOOGLE	row 6, col 6	across
YAHOO	row 1, col 10	down
BING	row 9, col 6	across, backwards
MSN	row 5, col 11	up
ASK	row 3, col 3	across
SEARCH	row 6, col 5	slanting down
KEYWORD	row 2, col 8	down
IMAGES	row 1, col 3	across
VIDEOS	row 6, col 4	slanting down
WEBSITE	row 4, col 2	down

ANSWERS

Chapter 2

Moving around the Web

A Name the picture

8 marks

1. Bookmark (star)	2. Back	3. Search	4. Home
5. Hyperlink (hand)	6. Refresh	7. History	8. Forward

B Match them

6 marks

1. History → C	2. Bookmark → F	3. Hyperlink → D
4. Back button → E	5. Forward button → A	6. Tabs → B

C Which one would you use?

6 marks

1. Back button	2. Bookmark (the star)	3. History
4. Tabs	5. Search engine	6. Forward button

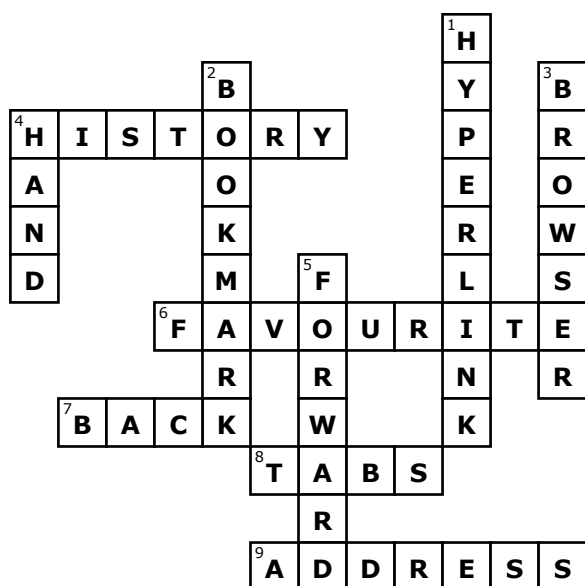
★ TEACHING TIPS

- Show "Save as type: All Files" on the projector. Most first problems are banana.html.txt files.
- In File Explorer, tick View, then File name extensions, so students can see .html.
- Ask pairs to search the same keywords in two search engines and compare the lists.



D Crossword

10 marks



Across: 4 HISTORY, 6 FAVOURITE, 7 BACK, 8 TABS, 9 ADDRESS

Down: 1 HYPERLINK, 2 BOOKMARK, 3 BROWSER, 4 HAND, 5 FORWARD

E Answer these

4 marks

1. Write one difference between the History and a bookmark. (2 marks)

The History is a list of the web pages you visited; the browser keeps it by itself. A bookmark is a web address that you save yourself (click the star) because you use it often. 2 marks for a clear difference.

2. How do you know that a text is a hyperlink? (2 marks)

It is underlined and in colour, and the mouse pointer becomes a hand over it. Any two of these, 1 mark each.

F History or bookmark?

6 marks

Sentence	History	Bookmark
The browser saves it by itself.	☒	☐
You click the star to save it.	☐	☒
It is a list of the web pages you visited recently.	☒	☐
It saves a website that you use often.	☐	☒
It is also called a Favourite.	☐	☒
Press Ctrl + H to open it.	☒	☐

G True or false

6 marks

1. T	2. T	3. F	4. T	5. F	6. F
------	------	------	------	------	------

False: 3 (they are at the top left corner), 5 (many pages can be open as tabs), 6 (Forward opens the next page again; Back opens the page before).



ANSWERS

Chapter 3

Planning a web page

A Fill in the blanks

6 marks

1. goal	2. layout	3. design
4. Navigation	5. images	6. Notepad

B Good idea or bad idea?

6 marks

Idea for a web page	Good idea	Bad idea
Use big, clear letters for the headings.	☒	☐
Put forty pictures on one page.	☐	☒
Use pictures that match the topic of the page.	☒	☐
Write light grey text on a white background.	☐	☒
Add a menu with links to the other pages.	☒	☐
Put a picture of a car on a page about fruits.	☐	☒

Why: clear letters (design); a few pictures that match the content (images); a menu (navigation); grey text on white is hard to read.

C Label the tag

5 marks

1. start tag	2. end tag	3. content	4. angle bracket	5. slash
--------------	------------	------------	------------------	----------

D Match the tag

8 marks

1. <html> → D	2. <title> → H	3. <body> → C	4. <h1> → F
5. <i> → A	6. → G	7. → E	8. → B

E Plan a web page

8 marks

1 mark each for a clear goal, the users, and one design idea (colours or fonts). 5 marks for the drawing: a heading, a menu, a picture, text and a hyperlink, each drawn and labelled (1 mark each).

★ TEACHING TIP

- Make the class say "Save, then Refresh" after every change to the code.



F Start tags and end tags

10 marks

1. <code><html> → </html></code>	2. <code><title> → </title></code>	3. <code><body> → </body></code>	4. <code><h1> → </h1></code>
5. <code><i> → </i></code>	6. <code><center> → </center></code>	7. <code> → </code>	8. <code> → </code>

9 - 10. `<br>` and `` have no end tag (1 mark each). The end tag is the start tag with a slash.

G Answer these

4 marks

1. Write TWO things to think about when we use images on a web page. (2 marks)

Any two: the images must suit the users; they must match (be compatible with) the content; use only a few images. 1 mark each.

2. What is the difference between a start tag and an end tag? Give one example. (2 marks)

The end tag has a slash (/) and closes the tag; the start tag opens it (1 mark). Example: `<b>` and `</b>` (1 mark).

■ ANSWERS
■ **Chapter 4**
■ Making a web page

A Put the code in order

8 marks

The number the student writes in the box of each line (line number - answer):

1. 4 - <code></head></code>	2. 6 - <code><h1>Welcome to Our School</h1></code>
3. 1 - <code><html></code>	4. 7 - <code></body></code>
5. 3 - <code><title>Our School</title></code>	6. 8 - <code></html></code>
7. 5 - <code><body></code>	8. 2 - <code><head></code>

B Which tag made it?

8 marks

1. <code><title></code>	2. <code><h1></code>	3. <code></code>	4. <code><i></code>
5. <code></code> (with <code></code>)	6. <code></code>	7. <code></code> (with <code></code>)	8. <code></code>

Also accept `<li>` for 5 and 7, `<p><i>` for 4, `<p><b>` for 6, and `<center>` with 2.



TIP: Play tag ping-pong: you say a tag, the class says what it does.



C Be the HTML checker

5 marks

1. **Line 3:** <tittle> → <title>
2. **Line 6:** <centre> → <center>
3. **Line 7:** sweet → sweet
4. **Line 11:** </ul →
5. **Line 12:** herf → href

1 mark for each mistake that is found and corrected.

D Fill in the missing words

7 marks

1. title	2. body	3. p	4. ol
5. src	6. href	7. html	

E Choose the correct answer

10 marks

1. (b) search engines	2. (c) Back
3. (a) History	4. (b) underlined
5. (b) match the content	6. (c) Notepad
7. (b) < >	8. (b) <u1>
9. (a) 	10. (c)

MARKING SCHEME
Unit 6 Test
 Total 40 marks

1 Choose the correct answer

8 marks (1 each)

1. (b) Google	2. (c) keywords
3. (a) History	4. (b) bookmark
5. (c) hand	6. (d) the mouse
7. (c)	8. (a)

2 Fill in the blanks

8 marks (1 each)

1. engines	2. keywords	3. Back	4. bookmark
5. tabs	6. HTML	7. angle	8. end



3 Name the picture**8 marks (1 each)**

1. Back	2. Bookmark (star)	3. Refresh	4. Hyperlink (hand)
5. Tabs	6. Search	7. Forward	8. History

Accept "star" or "Favourite" for Bookmark, and "link" or "hand pointer" for Hyperlink.

4 Answer these**16 marks****1. What is a search engine? Write the names of TWO search engines. (3 marks)**

It helps us to find information, images, videos and websites on the Web (1 mark). Any two of Google, Yahoo, Bing, Ask, MSN, About (1 mark each).

2. Write one difference between the History and a bookmark. (2 marks)

The History is a list of the pages you visited, kept by the browser by itself. A bookmark is a web address you save yourself (the star) because you use it often. 2 marks.

3. Write FOUR things to think about before we create a web page. (4 marks)

Any four, 1 mark each: the goal of the website; the users (who uses it); layout and structure; design (colours, letters, font size, clear and easy to read); navigation; use of images.

4. Name TWO programs that can be used to create web pages with HTML. (2 marks)

Any two: Notepad, NetBeans, Microsoft Visual Studio Community, WordPress, Bluefish, Eclipse. 1 mark each.

**5. Write what each tag does: (a) <title> (b) (c)
 (d) <p> (e) (5 marks)**

(a) the title of the page, shown on the browser tab; (b) a list with bullets; (c) a line break (a new line); (d) a paragraph; (e) creates a hyperlink. 1 mark each.

i WHAT STUDENTS USUALLY GET WRONG

- They type a long sentence in the search box. Teach short **keywords**.
- They mix up the **History** (kept by itself) and **bookmarks** (saved with the star).
- They mix up **tabs** (in the browser) and **tags** (in HTML).
- They save **banana.html.txt**. Choose **Save as type: All Files**.
- They forget the slash: **...** instead of **...**.
- They write **<centre>**. HTML only understands **<center>**.
- They click Refresh before they **Save** in Notepad.
- They keep the picture in another folder, so **** shows nothing.



★ HOMEWORK AND EXTRA PRACTICE

- Write keywords to find a kiribath recipe and pictures of Sigiriya.
- Draw a web browser from memory and label its buttons.
- Plan a web page about your village: goal, users, layout, pictures.
- On paper, write the HTML for a page about your favourite fruit.
- Fast learners: make a third page and link the three pages together.

> PRACTICAL TEST - 20 MINUTES, 20 MARKS (OPTIONAL)

Use it after the unit, in the computer room. Read the steps aloud or write them on the board. Mark on the screen.

Step	The student must ...	Marks
1	Open Notepad. Type the <html>, <head>, <title> (Sports Meet) and <body> tags.	3
2	Add the heading SPORTS MEET with <h1>, centred.	2
3	Add a paragraph with the date. Make the date bold.	2
4	Add a numbered list of three events: 100m race, long jump, relay.	3
5	Add a bulleted list of things to bring: water, a cap, shoes.	3
6	Add a picture from the teacher's folder with .	2
7	Add a hyperlink to banana.html (or myschool.html).	2
8	Save as sports.html (All Files) and open it in the browser.	2
9	Click the link, then use the Back and Forward buttons.	1
	Total	20

i THE FINISHED banana.html (PRACTICALS 3 TO 7) - TO CHECK ON THE SCREEN

banana.html - lines 1 to 15

```

1 <html>
2 <head>
3 <title>Benefits of Banana</title>
4 </head>
5 <body>
6 <center>
7 <h1>Wonderful Benefits of Banana</h1>
8 
9 <p><i>Add a banana to your daily diet.<br>
10 It is good for your body.</i></p>
11 </center>
12 <p>Bananas help to:</p>
13 <ol>
14 <li>lose weight</li>
15 <li>keep your bowels healthy</li>

```

banana.html - lines 16 to 29

```

16 <li>keep your heart healthy</li>
17 <li>keep your eyes healthy</li>
18 </ol>
19 <p><b>Bananas give us vitamins
20 and minerals:</b></p>
21 <ul>
22 <li>Vitamin B6 - 0.5 mg</li>
23 <li>Vitamin C - 9 mg</li>
24 <li>Potassium - 450 mg</li>
25 <li>Protein - 1 g</li>
26 </ul>
27 <a href="more.html">More about bananas</a>
28 </body>
29 </html>

```