COMPUTER LESSON PLAN-2021-2022 CLASS-8



Family is the most important thing in the world.

Teaching Pedagogies

Pedagogy is often described as the approach to teaching. It is the study of teaching methods including the aims of education and the ways in which such goals can be achieved.

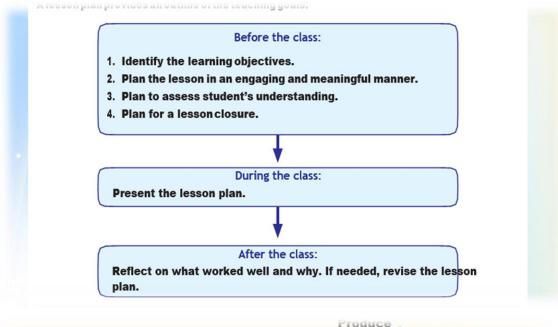
<u>Lesson Plans:</u> A lesson plan is the instructor's road map which specifies what students needs to learn and how it can be done effectively during the class time. A lesson plan helps teachers in the classroom by providing a detailed outline to follow in each class.

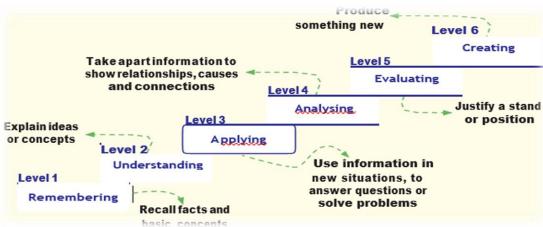
A lesson plan addresses and integrates three key components:

- Learning objectives
- Learning activities
- Assessment to check the student's

understanding Alesson plan provides an

outline of the teaching goals:





LESSONPAAN

Number of Periods: 4

TERM 1

MONTH: APRIL

Ch-1 Computer Networking

MONTH: MAY

Ch-4 Lists and Tables in HTML MONTH:

MONTH: JULY

Ch-5 Images, Links and Frames in HTML

MONTH: AUGUST

Ch-6 Python—Loop and Functions

MONTH: AUGUST REVISION OF ALL THE

CHAPTERS

TERM 2

MONTH: SEPTEMBER (Last week)

Ch-7 Computer Safety and Security

MONTH: OCTOBER

Ch-8 Google Apps

MONTH: NOVEMBER

Ch-9 App Development

MONTH: NOVEMBER

Ch-10 Latest Technological Development

MONTH: JANUARY

Ch-2 Introduction to Adobe Photoshop

MONTH: JANUARY

Ch-3 More on Photoshop CC

1.Computer Networking

Teaching Objectives

Students will learn about:

- **☞ Computer Network**
- **™** Need for Computer Network
- Advantages of Computer Network
- Network Terminology
- Components Required for a Network
- + Types of Network
- + Topology
- + NetworkArchitecture
- + Wireless Networking Technology
- + Protocol

Previous Knowledge

Write any four methods of communication that you can think of:

1	3
2	4

While teaching this chapter, tell the students that the process of connecting computers and peripheral devices with each other to exchange data is called computer networking.

Vocabulary

LAN (Local Area Network), MAN (Metropolitan Area Network), WAN (Wide Area Network), PAN (Personal Area Network) and CAN (Campus Area Network) HTTP, HTTPS, FTP, TC/IP, POP3, IMAP and SMTP.

Important Spellings

server, print server, database server, network server and web server.

Resources

Aids/Methods

Computer, projector, green board, smart board, Zoom app

Procedure

- 1) Teacher will discuss uses of Networking.
- 2) then teacher will explain the concepts like i) Network Security ii) Storage media iii) Wireless Networking

Then draw various diagrams of Computer Network on board and explain each concept in detail.

Student Participation

Teacher will make two groups of students and ask advantages and disadvantages. Teacher will ensure that each student will participate and discuss various examples of each type of network.

Recapitulation/Assignment

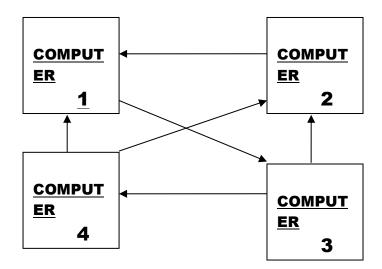
To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)What is Networking?
- 2) What are advantages of networking?
- 3)What is Network Security?

Assignment

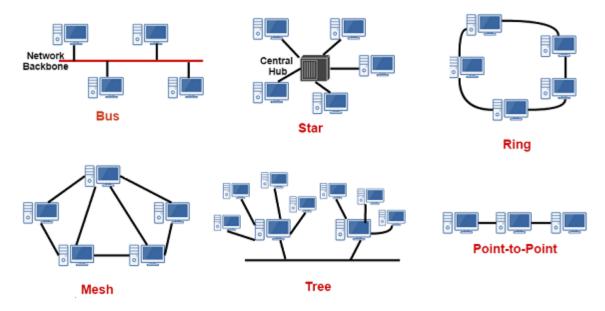
ACTIVITY:1

Explain the given diagram:



ACTIVITY:2

Draw the following diagram:



Art Integration

Ask the students to make models of different types of topologies using marbles and used wire pieces / straws.

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 19 and 20 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone- Let's Solve, Let's Explore and Let's Get Better given on Page 20 and 21 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Create an informative presentation using MS Powerpoint2010, on topic:

"Advantages of Networking" Apply the formatting and animation effects to make it impressive.

Activity 2: Create this topology in Ms-Word using various shapes and symbols

Assessment

Ask the students some oral questions based on this chapter.

- Q. Define computer network.
- Q. What is the need for a computer network?
- Q. What are the advantages of a computer network?
- Q. Define server / client.
- Q. What are the different types of computer servers?
- Q. What are the components required for a network?
- Q. Define LAN / MAN / WAN / PAN / CAN.
- Q. Define Topology.
- Q. Name different types of topologies.
- Q. What is meant by protocol?

4. Lists and Tables in HTML

Teaching Objectives

Students will learn about:

Creating Lists

+ Creating Tables

Previous Knowledge

What is Webpage?

HTML stands?

Which language is used to make webpages?

While teaching this chapter, tell the students that HTML tags are used to create a web page.

Vocabulary

- HTML
- HTML standards
- tags
- opening tag
- closing tag
- syntax
- elements
- code/source code
- wickets/brackets

Important Spellings

BORDER, BORDERCOLOR, FRAMES, BGCOLOR, BACKGROUND, HEIGHT, WIDTH, CELLSPACING and CELLPADDING.

Resources

The Basics of HTML, https://www.tjhsst.edu/~dhyatt/superap/basic.html

HTML Coding, https://www.uwec.edu/help/html.htm

HTML Tutorial, https://www.w3schools.com/html/ (includes hands-on resources to build websites)

Image Credit: Wikimedia Commons/Azoth

Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students

- Three to four reference websites that provide educational content and use effective HTML; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

- Teacher will discuss the use of <TABLE> tag and its child tags covering <TR>, <TD>,
 <TH> and <Caption>.
- 2) Tell the students that there are three types of lists Ordered List (Numbered List), Unordered List (Bulleted List) and Definition List (Description List) and use of ordered list and unordered list.
- 3) Teacher will discuss the following code with students and also show the output using projector:

```
1 < html>
 From
   To
   Date
6
7
   Price
8
  9
  10
   Chicago
   New York
11
12
   Tuesday 1/8
13
   $53
14
 15
  Chicago
17
   Denver
18
   Saturday 2/9
   $60
19
20 
21
  22 </html>
```

Output:

From	To	Date	Price
Chicago	New York	Tuesday 1/8	\$53
Chicago	Denver	Saturday 2/9	\$60

Student Participation

Teacher will ask student to write the HTML code to display the following table:

Some HTML Colors

Colour	Name	hexidecimal	RGB value
	Salmon	FA8072	250-128-114
	Gold	FFD700	255-215-0

Teacher will ensure the participation of each student.

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)What is use of Lists in html?
- 2)When we use Ordered Lists and Unordered Lists?
- 3)Which tags are used for row and columns?

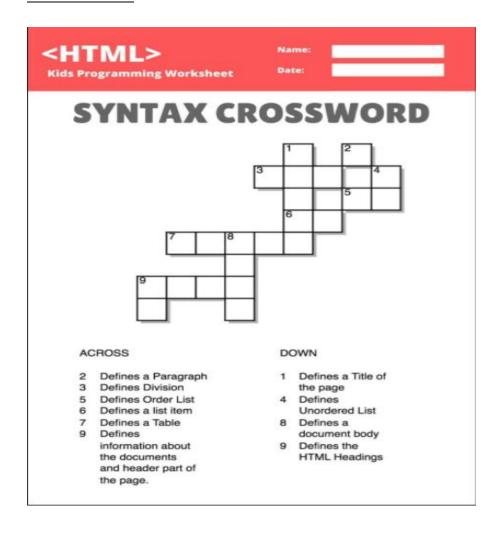
Assignment

ACTIVITY:1

Write the names of any four attributes of the <TABLE> tag in HTML.

1	3
2.	4.

ACTIVITY:2



Art Integration

Ask the students to create:

- List of favorite games of 10 friends.
- •Table of car names and their models

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 74 and 75 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone- Let's Solve, Let's Explore and Let's Get Better given on Page 76 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice the activity given in the Tech Practice section on Page 76 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity.

Activity 2: Create this topology in Ms-Word using various shapes and symbols

Roll No.	Name of Student		Marks in		
	Name of Student	English	Maths	Science	Total
1	Suman	84	96	81	271
2	Aryan	68	94	89	251
3	Naveen	71	83	73	227
4	Vinod	55	65	86	206
5	Sonia	61	92	75	228

Assessment

Ask the students some oral questions based on this chapter.

- Q. Define List / Table.
- Q. How many types of Lists can be created in HTML?
- Q. Name the different types of Lists that can be created in HTML.
- Q. What is an Ordered / Unordered / Definition List?
- Q. Name the attributes of tag.
- Q. Name the tags used to create Definition List.
- Q. Name the tags that can used to create different kinds of tables.
- Q. What are the attributes of table tag?

5.Images, Links and Frames in HTML

Teaching Objectives

Students will learn about:

- Inserting Images
 - Creating Marquee tags

Previous Knowledge

Teacher will ask to student:

1)Is it necessary to add images and graphics to a webpage?

- 2)Teacher will ask the following questions
 a. Gurpreet wants to list down the steps involved in baking a cake? Which HTML tag
 does he need to start the list?
 - b. Himesh wants to display the marks obtained in Maths, English, Science and Computer Science on the web page. Suggest him a best suited HTML tag that helps him in completing the task.
- c. Nidhi is preparing a table for her web page. The data in one of the cells extends over more than one column. Which attribute can she use to solve this problem?

more than one column. Which attribute can she use to solve this problem

Vocabulary

- SCROLLAMOUNT
- HREF
- FRAME
- attribute
- ALINK
- MARQUEE
- BORDER
- Anchor

Important Spellings

Interlinking, Intralinking, Target, Title, hyperlink

Resources

The Basics of HTML, https://www.tjhsst.edu/~dhyatt/superap/basic.html

HTML Coding, https://www.uwec.edu/help/html.htm

HTML Tutorial, https://www.w3schools.com/html/ (includes hands-on resources to build websites)

Image Credit: Wikimedia Commons/Azoth

http://www.washington.edu/accessit/webd2/student/index.html

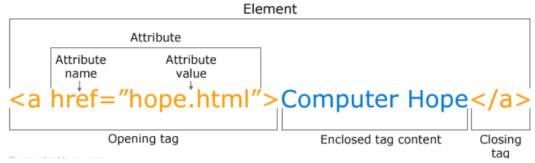
Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective HTML; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

- Teacher will discuss the use of <marquee > tag and its container tags covering <Scrollamount > <Direction > , <behaviour > .
- Teacher will Explain the structure of anchor tag

Breakdown of an HTML Tag



↓ Teacher will Explain the structure of marquee tag

<body>
 <marquee>This is basic example of marquee</marquee>
</body</pre>

Student Participation

Activity1:

Teacher will ask student to write the attributes of marquee tag. Activity 2:

Sunil wants to divide the webpage into three columns . Which HTML tag can he use for this purpose?

Teacher will ensure the participation of each student.

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)What are the various tags that can be used to make the webpage?
- 2)What the syntax to insert the image in a webpage?
- 3) What is the syntax for marquee tag?

Assignment

ACTIVITY:1

Write the names of any four attributes of the <marquee> tag in HTML.

1	3	
2	4	
ACTIVITY :2		
4 434	crossword on the basis of the	42.

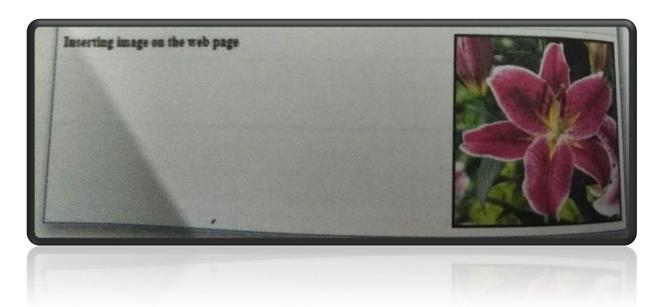
2.	Solve the crossword on the basis of the given clues:	
	Down:	
	Attribute value used to move text once.	

3.	Attribute used to display alter	nate te	xt for	the	image i	n the we	eb	1	
OP IS	browser.							1 5	
7.	Attribute used to align the ima								
Acı	ross:							4	
	Attribute used to specify URL	of the						1	W
1.	image to be inserted on a web	page.			7				
2.	Attribute used to define an aclink.	tive		6	A				
4.	HTML tag used to insert an image.		5		1				
5.	Attribute used to define a		3						
	visited link.	,	A		N				
6.	HTML tag used to insert a								
	moving text or image on a web page.								

Art Integration

Ask the students to create this webpage with image

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Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 90 and 91 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone— Let's Solve and Let's Explore given on Page 91 and 92 in the main course book. Take the students to the computer lab and let them practice the activity given in the Tech Practice section on Page 92 and 93 in the main course book. This will enhance the ability of the students and serve as a Subject Enrichment activity

Co-scholastic activities / Lab activity

<u>Activity 1:</u> Take the students to the computer lab and let them practice by making following webpages:



Activity 2:



Assessment

Ask the students some oral questions based on this chapter.

- Q. Which tag is used to insert images on a web page?
- Q. State the use of SRC / WIDTH / ALIGN /ALT attribute of IMG tag.
- Q. Which image formats are supported by HTML?
- Q. What is the use of MARQUEE tag?
- Q. Which tag is used to link web pages?
- Q. Name the attributes that can be taken by FRAME tag

.....

5. Python-Loop and

functions

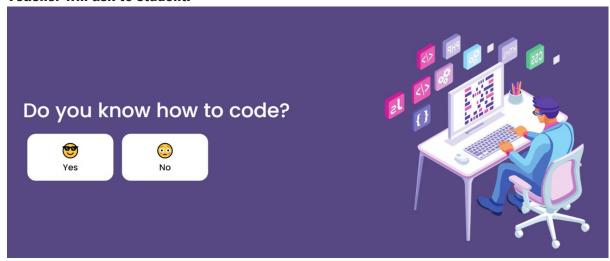
Teaching Objectives

Students will learn about:

- **♣** The FOR Statement
- Jump Statements
- **♣** The WHILE Statement
- **♣** Functions

Previous Knowledge

Teacher will ask to student:



- 1)What is Coding?
- 2)What is the use of Coding?
- 3)What are functions?
- 4) What is programming language?
- 5)Name some programming languages?

Vocabulary

- For statement
- variable
- iterator
- While statement
- Range function
- Jump statement
- Break statement

Important Spellings

variable

- iterator
- print
- function
- parameters

Resources

https://docs.python.org/3/tutorial/

https://www.w3schools.com/python/

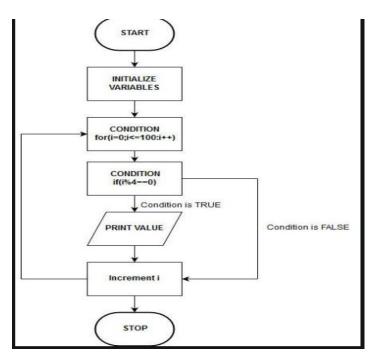
Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective python; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

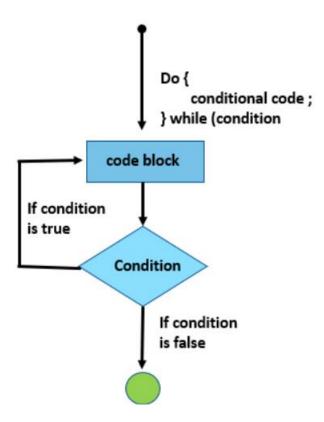
↓ Teacher will discuss the

Flowchart for for loop



↓ Teacher will discuss the

Flowchart for while loop



Student Participation

Activity1:

Teacher will ask student to write a code to print Your Name in your notebooks.

Activity 2:

Write a code to print 1 to 100.

Teacher will ensure the participation of each student.

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

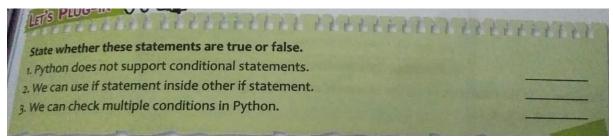
- 1)What is the syntax for 'While Loop'?
- 2)What is the syntax for 'FOR' loop?
- 3)What is the syntax GoTO statement?

Assignment

ACTIVITY:1

Write the code for 2's table.

ACTIVITY:2



Art Integration

Find out the companies using python.

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 105 and 106 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve and Let's Explore given on Page 106 and 107 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by making programs:

Ask the students to make a list of series where you can apply the FOR and JUMP statements.

Assessment

Ask the students some oral questions based on this chapter.

- Q. What are looping statement?
- Q. What is the function of FOR statement?
- Q. What is the function of WHILE statement?
- Q. What is the function of JUMP statement?
- Q. What is a FUNCTION?

7.Computer safety and security

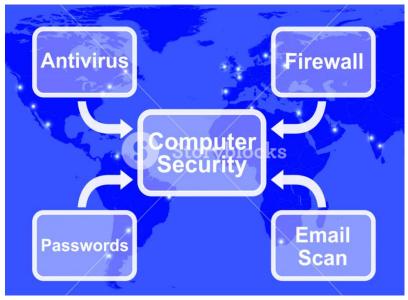
Teaching Objectives

Students will learn about:

- ♣ How to Keep your Computer Physically Fit?
- Other Maintenance Techniques
- ♣ Protecting your Computer from Illegal
- **Malware Access**
- Antivirus
- How to Backup your Important Files?
- ♣ Firewall

Previous Knowledge

Teacher will ask to student:



- 1)What is antivirus?
- 2) What is the use of antivirus?
- 3)What is use of passwords?
- 4)What is Firewall?
- 5)Name any 5 antivirus softwares?

Vocabulary

- Firewall
- Malware
- Firewall
- Backup
- Rootkit
- Backdoor

Important Spellings

- Rootkit
- Backdoor
- firewall
- malware

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Resources

https://www.storyblocks.com/images/stock/computer-security-diagram-shows-laptop-internet-safety-svdx-0a4mdzj6gn0I7d

https://www.edureka.co/blog/what-is-computersecurity/#:~:text=Computer%20Security%20means%20securing%20a,communicate%20over%20the%20computer%20networks

Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective python; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

- **♣ Teacher will discuss the Various methods of protecting the computer from illegal access**
- **4** Teacher will discuss the backup of important files
- **↓** Teacher will discuss the Various methods of protecting the computer from illegal access
- **↓** Teacher will discuss the Various anti Virus software's

Student Participation

Activity1:

Teacher	will	ask	studen	t to	name	any	three	ways	to	keep	your
compute	er phy	ysica	lly fit.								

1	
2	_
3	_
Activity 2:	
When Computer se	curity day celebrates?
Ans.	

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)Rules to apply the password.
- 3) Why the backup of files is important?

Assignment

ACTIVITY:1

Write the various ways to backup the files

ACTIVITY:2

Ask the students to prepare a detailed project on any anti-virus software on an A3 sheet.

Art Integration

Surf the Internet to find the latest antivirus and protection measures you can use to secure your computer.

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 116 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve, Let's Explore and Let's Get Better given on Page 117 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by making programs:

Ask the students to make gmail-id and choose appropriate password for your account

Assessment

Ask the students some oral questions based on this chapter.

- Q. Define authentication.
- Q. Where is elastic graph matching technique used?
- Q. What is the difference between encryption and decryption?
- Q. What is malware?
- Q. Define virus / worm / rootkit / backdoor / ransomware.
- Q. What is an anti-virus?
- Q. Name some commonly used anti-virus software.

8. Google Apps

Teaching Objectives

Students will learn about:

- **♣** Google apps
- **♣** Google

Previous Knowledge

Teacher will ask to student:











- 1)Identify the these logos and tell its name.
- 2) What are the various apps they are using in their mobile phones?
- 3)What is use of apps?

Vocabulary

- Google
- Google drive
- Google Maps
- Roadmap
- Satellite
- Terrain

Important Spellings

- Google
- Google drive
- Google Maps
- Roadmap
- Satellite
- Terrain

Resources

https://edu.gcfglobal.org/en/googledocuments/

https://developers.google.com/apps-script/articles

Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use

- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective google apps; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

Teacher will discuss the Various important facts about Google like

- Google is US based software company
- It is developed by Larry Page and Sergey Brin in 1998
- **♣ Teacher will discuss the Google Apps** ,Google Drive

Student Participation

Activity1:

Write	the	tour	names	ot	Googl	е	Apps
1.							

2.			

3						

4.____

Activity 2:

Create a document on Google Docs. Type a story of your choice and save it with name "My First Google docs".

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)Define Google Drive.
- 2) What are Google Slides?
- 3)What are Google Docs?
- 4)What are Google Sheet?

Assignment

ACTIVITY:1

Guess Who I am?

a.	I am an online version of Microsoft PowerPoint developed by Google in 2006.
b.	I am a video sharing application where users can upload their videos, share, comment, watch and like other videos.
c.	I am a spreadsheet application introduced by Google on March 9, 2006.
d.	I am the tagline of YouTube.
2.	am a free online word processing program similar to Microsoft Word.
	am a cloud-based storage service provided by Google.

Art Integration

Using Google Map's satellite View ,Find your home and your school

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 134 and 135 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve, Let's Explore and Let's Get Better given on Page 135 and 136 in the main course book

Co-scholastic activities / Lab activity

<u>Activity 1:</u> Take the students to the computer lab and let them practice by:

Ask the students to make You tube channel and uploading a video.

Activity 2: Take the students to the computer lab and let them practice by

Create a spread sheet using Google sheets app. Share the sheets with your friends

Assessment

Ask the students some oral questions based on this chapter.

- Q. What are Google Apps?
- Q. What is Gmail?
- Q. What is Google Drive?
- Q. What is Google Maps?
- Q. What is Google Docs?
- Q. What is Google Sheets?
- Q. What is Google Slides?
- Q. What is YouTube?

9. App Development

Teaching Objectives

Students will learn about:

- What is an App?
- Categories of Apps
- ♣ Image Defining the Android and iOS
- + Downloading and Installing the App
- **↓ ☞** Types of Mobile Apps + Developing an App

Previous Knowledge

1)What are the various apps they are using in their mobile phones?

3)What is use of apps?

Vocabulary

- Google Play store
- Apple app store
- Microsoft app store

Important Spellings

- Hybrid app
- Web apps
- Native app
- Anroid
- iOS

Resources

https://edu.gcfglobal.org/en/googledocuments/

https://developers.google.com/apps-script/articles

Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective google apps; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

Teacher will discuss about firstly make the students understand about iOS and android operating system.

Then discuss about its apps with help of examples.

Then discuss about hybrid apps, native apps and web apps.

Student Participation

Activity1:	
Write the four na	mes of Native Apps
1	<u> </u>
2	
3	
4	
Activity 2:	
Write the four na	mes of Hybrid Apps
1	
2	
3	
4	
	mes of Web Anns

Write the four names of Web Apps

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1) Define Google apps
- 2) What are native apps?
- 3)What are hybrid apps?
- 4)What are web apps?

Assignment

ACTIVITY:1

Differentiate between desktop and web apps.

Art Integration

Download the educational app Vedantu in your phone from play store and also explore its various features.

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 147 and 148 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve, Let's Explore and Let's Get Better given on

Page 148 and 149 in the main course bookPage 135 and 136 in the main course book

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by open the https://appinventor.mit.edu/link



Assessment

Ask the students some oral questions based on this chapter.

- Q. Q. What is an App?
- Q. Define the following:
- Gaming Apps Productivity Apps Entertainment Apps Utility Apps Educational Apps Social Networking Apps Communication Apps E-Commerce App

10.Latest Technological

Development

Teaching Objectives

Students will learn about

- ♣ ☞ Artificial Intelligence
- + + 3D Printing
- **↓ ☞** Augmented Reality and Virtual Reality
- + RPA (Robotic Process Automation)
- Internet of Things

Previous Knowledge

Teacher will ask to student:

- 1)What are machines?
- 2) What are Artificial Machines?
- 3)What are Robots?

Vocabulary

- Prospector
- Natural Language processing
- ♣ Pattern recognition
- Augmented reality and Virtual Reality

Important Spellings

- Prospector
- Natural Language processing
- Pattern recognition
- ♣ Augmented reality and Virtual Reality

Resources

https://www.investopedia.com/terms/a/artificial-intelligence-ai.asp#:~:text=Artificial%20intelligence%20(AI)%20refers%20to,as%20learning%20and%20problem%2Dsolving.

\https://developers.google.com/apps-script/articles

Aids/Methods

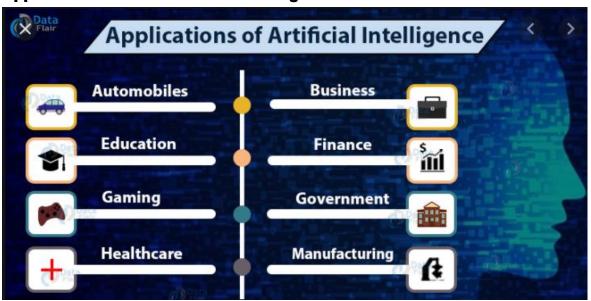
- zoom app
- white board
- HTML reference book
- Computers for students to use

- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective google apps; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

Teacher will discuss the

Application areas of Artificial Intelligence



And also discuss about NLP, Expert system and Intelligent apps.

Student Participation

Activity1:

Write the four are	as where A	Al applicatio	ns are u	sed	
1					
2					
3					
4					
Activity 2:					
Write the four Automation appli			where	Robotic	Process
1					
2					
3					
4					
Decemitulation/Acc					

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)What is RPA?
- 2) Write the areas where AI is used

Assignment

ACTIVITY:1

Write about the latest technological developments they are aware of.

Art Integration

Create PowerPoint presentation about Robotics also add images, videos and voiceover

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 158 and 159 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve and Let's Explore given on Page 160 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by:

Create PowerPoint presentation about Robotics also add images, videos and voiceover

Assessment

Ask the students some oral questions based on this chapter.

- **Q** What is an Artificial Intelligence?
- Q. What is an Augmented Reality?
- Q. What is an Virtual Reality?
- Q. What is an Internet of Things?
- Q. What is an 3D Printing?
- Q. What is an RPA

2.Introduction to Adobe Photoshop CC



Teaching Objectives

Students will learn about

- **♣ ☞** Features of Adobe Photoshop CC
- + Hove and Selection Tools
- ♣ ☞ Opening Adobe Photoshop CC 2018
- + + Cropping Tools
- **↓ ☞** Creating a New Document
- + Painting Tools
- **♣ ☞** Adobe Photoshop CC 2018 Interface
- + Inserting Text
- ♣ ☞ Opening an Image in Photoshop
- + Transform Tool
- Placing an Image in an Existing Document
- + Saving a File in Photoshop
- **♣ ☞** Tools in Photoshop
- + Closing a File and Exiting Photoshop

Previous Knowledge

Teacher will ask to student:

- 1)What do you understand by photoshop?
- 2)Did you ever make changes in original photo to make it more beautiful?
- 3)Did you ever make changes in colors of pictures?

Vocabulary

- Rounded Marquee tool
- Elliptical Marquee tool
- ♣ Lasso tool Polygonal Lasso tool
- **♣** Magnetic Lasso tool Quick Selection tool
- Magic Wand tool b. Cropping tools
- **♣** Crop tool
- Perspective Crop tool
- **♣** Slice tool and Slice Select tool
- Painting tools
- Brush tool
- Pencil tool
- Color Replacement tool

- Mixer Brush tool
- History Brush tool
- Gradient tool
- Paint Bucket tool
- 3D Material Drop tool

Important Spellings

- Rounded Marquee tool
- Elliptical Marquee tool
- Lasso tool
- Polygonal Lasso tool
- Magnetic Lasso tool
- Quick Selection tool
- Magic Wand tool
- Cropping tools

Resources

https://www.google.com/search?q=photoshop&sxsrf=ALeKk03a4qe_OsIGT3_PP 91nGJi5I4vc2g:1623185218282&tbm=isch&source=iu&ictx=1&fir=DA-J9IZqrEGu0M%252CAEoLeZA25mx8aM%252C%252Fm%252F06710&vet=1&usg=AI4 -

kQfgCCHCoxQvYT76lz55Bk5rpA3UA&sa=X&ved=2ahUKEwiAi9yS9ljxAhXOdn0 KHerACm8Q_B16BAgsEAE#imgrc=DA-J9lZqrEGu0M

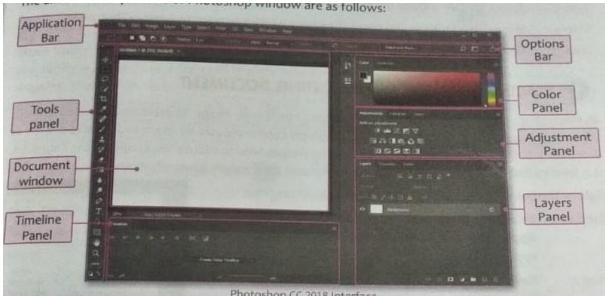
Aids/Methods

- zoom app
- white board
- HTML reference book
- Computers for students to use
- Computer and computer projector (InFocus) to show websites and related materials to students
- Three to four reference websites that provide educational content and use effective google apps; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

Teacher will firstly discuss the Application of Photoshop.

Then discuss the way to open the photoshop and creating a new document and discuss various shortcuts



Photoshop CC 2018 Interface
And also discuss about interface of Photoshop.
Student Participation
Activity1:
Write the four names of photoshop tools.
1
2
3
4
Activity 2:
Write the four names of selection tool.
1
2
3
4
Recapitulation/Assignment
To revise the chapter teacher will ask few questions from chapter that are
already discussed in class like:
1)What is the use of Photoshop?
2) What is use of Magic Wand tool?
Assignment
ACTIVITY :1
Write the name of tool that is used in photoshop to:
Write vertical text
Fill a gradiant in an image
Replace the colour of an image
Select an object by drawing a free hand marquee around it
Art Integration

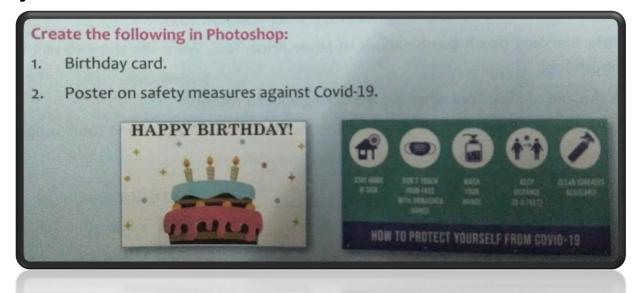
Create a paster on your favourite game.

Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 42 and 43 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve and Let's Explore given on Page 43 and 44 in the main course book.

Co-scholastic activities / Lab activity

<u>Activity 1:</u> Take the students to the computer lab and let them practice by:



Assessment

Ask the students some oral questions based on this chapter.

- Q What is the role of Adobe Photoshop?
- Q. What are the features of Photoshop?
- Q. What is the use of Move tool?
- Q. What is the use of Selection tool?
- Q. What is the use of Cropping tool?
- Q. What is the use of Inserting text tool?
- Q. What is the use of transform tool?

2. More on Photoshop CC



Teaching Objectives

Students will learn about

- Layers in Photoshop
- + Shape Tools
- ♣ ☞ Painting Tools in Photoshop
- + Navigation Tools
- Retouching Tools
- 👃 + Image Menu
- Drawing Tools
- + Layer as a Smart Object

Previous Knowledge

Teacher will ask to student:

- 1)What do you understand by photoshop?
- 2)Tell me the few name of tools that are used in photoshop?
- 3)When to use selection tool in photoshop?

Vocabulary

♣ Painting tools • Eye Dropper tool • 3D Material Eyedropper tool • Color Sample tool • Ruler tool • Note tool • Eraser tool • Background Eraser tool • Magic Eraser tool b. Retouching tools • Healing Brush tool • Patch tool • Content Aware Move tool • Red Eye tool • Clone Stamp tool • Pattern Stamp tool • Blur, Sharpen and Smudge tool • Dodge, Burn and Sponge tool Perspective Crop tool

Important Spellings

↓ Eye Dropper tool • 3D Material Eyedropper tool • Color Sample tool • Ruler tool • Note tool • Eraser tool • Background Eraser tool • Magic Eraser tool b. Retouching tools • Healing Brush tool • Patch tool • Content Aware Move tool • Red Eye tool • Clone Stamp tool • Pattern Stamp tool • Blur, Sharpen and Smudge tool • Dodge, Burn and Sponge tool

Resources

https://www.google.com/search?q=photoshop&sxsrf=ALeKk03a4qe_OsIGT3_PP 91nGJi5I4vc2g:1623185218282&tbm=isch&source=iu&ictx=1&fir=DA-J9IZqrEGu0M%252CAEoLeZA25mx8aM%252C%252Fm%252F06710&vet=1&usg=AI4_-

kQfgCCHCoxQvYT76lz55Bk5rpA3UA&sa=X&ved=2ahUKEwiAi9yS9ljxAhXOdn0 KHerACm8Q B16BAgsEAE#imgrc=DA-J9lZqrEGu0M

Aids/Methods

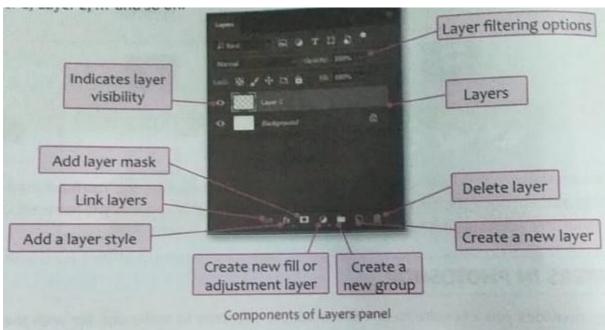
zoom app

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- Three to four reference websites that provide educational content and use effective google apps; (There are many educational websites produced by universities and governments that can be used for this purpose.)
- Assessment materials for students to complete (noted below)

Procedure

Teacher will firstly discuss the Application of Photoshop.

Then discuss the way to open the photoshop and creating a new document and discuss various shortcuts



And also discuss about interface of Photoshop.

Student Participation

Activity1:

Write the names of layer panel.

1			
2.			

3					

4.			

Recapitulation/Assignment

To revise the chapter teacher will ask few questions from chapter that are already discussed in class like:

- 1)What is the use of Photoshop?
- 2) What are the components of layer panel?

Assignment

ACTIVITY:1

Gusess Who I am?

ı	am	а	panel	used	to	create	and	delete	layers.	
•	u	•	Pulle	4364	••	OI CUIC	uiiu	acic to	iu y Ci Ji	

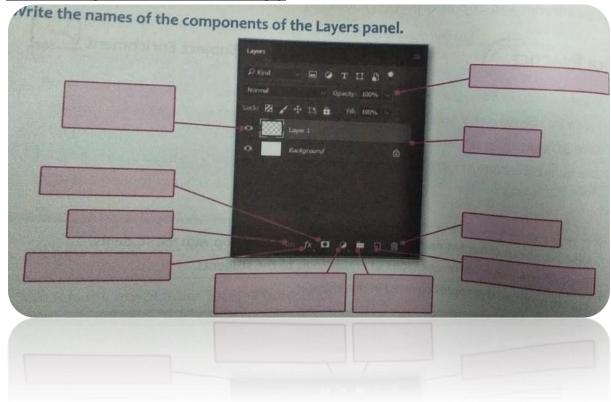
I am a tool used to delete an object from a layer.____

I am a tool used to scroll th image on th canvas._____

I am a tool used to make the image hazy._____

Art Integration

Fill up the given boxes accordingly



Learning outcomes

After explaining the chapter, let the students do the exercises given on Page 60 and 61 in the main course book as Test Your Skills. Tell the students to try sections under Fun Zone– Let's Solve and Let's Explore given on Page 61 in the main course book.

Co-scholastic activities / Lab activity

Activity 1: Take the students to the computer lab and let them practice by: Ask the students to download and edit an image and make them one using proper tools.

Assessment

Ask the students some oral questions based on this chapter.

Q What is the use of Painting tool?

Q. What is the use of Retouching tool?

Q. What is the use of Navigation tool?

Q. What is the use of Drawing tool?							
Q. What is the use of Shapes tool?							
	*****	******	*****	*****	*****	****	