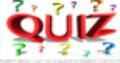


HOLIDAY HOMEWORK

CLASS XI

SESSION: 2024-2025

CHOICE BOARD: AI (XI)

 Prepare a Kahoot Quiz of at least 15 questions on Employability Skills	E-Flyer Show examples and applications of three domains of AI	CROSSWORD  Create a crossword of at least 10 questions based on Python Tokens, datatypes and operators
PODCAST  Difference between Narrow AI and General AI	CODING  Write Python Program to To find average of numbers entered To make a simple calculator	BROCHURE  Showing Evolution of AI
PRESENTATION  Explain the difference between Supervised, Unsupervised and reinforcement learning	COLLAGE  Showing Common Job Roles in AI and essential AI skills	CHATBOT Create a chat bot in botpress.com that can be placed at school reception

INFORMATICS PRACTICES: XI C++

CHOICE BOARD

 Prepare a Kahoot Quiz of at least 15 questions on Database Concepts	E-Flyer Show examples and applications of three input and output devices each	CROSSWORD  Create a crossword of at least 10 questions based on SQL categories, Keys and datatypes
PODCAST  Difference between Proprietary SW and Open Source SW	CODING  Write SQL Commands To create a database To Create a Table with 4 columns and 3 rows inserted	BROCHURE  Listing Components of CPU and Role of CPU in a computer System
PRESENTATION  Explain the difference between Primary Memory and Secondary Memory	COLLAGE  Showing different Input devices	SURVEY  Conduct a survey/poll To access awareness about Data Security

CHOICE BOARD

 <p>Prepare a Kahoot Quiz of at least 15 questions on Python Fundamentals</p>	<p>E-Flyer</p> <p>Show examples and applications of three python sequences</p>	<p>CROSSWORD</p>  <p>Create a crossword of at least 10 questions based on Python Fundamentals</p>
<p>PODCAST</p>  <p>Difference between Implicit & Explicit Type Casting</p>	<p>CODING</p>  <p>Write 2 Python programs on A-4 sheets to</p> <ol style="list-style-type: none"> 1) find largest of 3 numbers 2) find largest of 4 numbers 	<p>BROCHURE</p>  <p>Listing Data Types in Python</p>
<p>PRESENTATION</p>  <p>Explain the difference between if elif ladder and nested if statement</p>	<p>COLLAGE</p>  <p>Make online collage to depict features of Python Language</p>	<p>SURVEY</p>  <p>Conduct a survey to find which particular programming language is being used in various tech-companies</p>

POLITICAL SCIENCE

CLASS XI

Do as many activities as you can (minimum 3 activities). Activity with * is compulsory for all.

QUIZ PREPARE A QUIZ WITH 10 QUESTIONS ON THE TOPIC” CONSTITUENT ASSEMBLY OF INDIA”	COMIC STRIP CREATE A COMIC STRIP ON THE DEBATES IN THE CONSTITUENT ASSEMBLY	BROCHURE HIGHLIGHT THE KEY FEATURES OF THE INDIAN CONSTITUTION.
WRITE A SLOGAN CREATE A CATCHY SLOGAN PROMOTING NATIONAL UNITY IN A DIVERSE COUNTRY LIKE INDIA	CONDUCT A MOCK INTERVIEW IMAGINE YOU ARE INTERVIEWING DR. B R AMBEDKAR ON HIS VISION FOR AN INDEPENDENT INDIA *	RESEARCH PROJECT SUCCESS AND FAILURE OF THE INDIAN CONSTITUTION
PODCAST GIVE A SPEECH IN THE CONSTITUENT ASSEMBLY FAVOURING RESERVATION IN JOBS AND EDUCATIONAL INSTITUTIONS.	COLLAGE PEOPLE CELEBRATING INDEPENDENCE	COMPLETE SYNOPSIS OF YOUR PROJECT WORK AND COMPLETE ATLEAST ONE MAIN TOPIC .

CHEMISTRY

CLASS XI

TOPIC: MOLE

Attempt any 3 activities .The activities must be chosen in a horizontal, vertical or diagonal line in such a manner that the compulsory activity is included.

<u>Verbal/Linguistic</u> Write a story in 80-100 words to describe mole and its discovery.	<u>Logical/Mathematical</u> Determine how many moles of chalk it takes to write your full name on the blackboard.	<u>Intrapersonal</u> Make a project of 8-10 pages comprising of framing questions related to mole from different types like Multiple choice questions, short answer, long answer and High order thinking questions.
<u>Interpersonal</u> With one partner make a cubical box depicting conversion of number of particles, mass and volume into mole.	<u>Compulsory</u> Arrange the pieces of triangles provided to create a Tarsia worksheet on mole concept.	<u>Musical/Rhythmic</u> Write a song or rap explaining mole concept.
<u>Visual/Spatial</u> Make an informative digital poster depicting conversion of number of particles, mass and volume into mole.	<u>Bodily/Kinesthetic</u> In partners, record a skit of 2-3 minutes to explain the mole concept and correlating the moles with number of atoms/molecules and its Atomic/molecular mass.	<u>Naturalist</u> Calculate the number of molecules/atoms in small amounts (say 10g) of 5 items of everyday substance like sugar, common salt etc.

MADE BY: MS.MONICA ARORA

ECONOMICS

Class XI

Q1: In the following choice board, Activity 5 is a compulsory activity for all students. Out of the remaining activities, choose any TWO which interest you and complete the task as per the instructions given.

<p><u>ACTIVITY 1:</u> COLLECT data on weight & height of your family members & CALCULATE their BMI. [LOGICAL]</p>	<p><u>ACTIVITY 2:</u> Design TWO Tambola/Housie tickets as table of random numbers. [KINESTHETIC]</p>	<p><u>ACTIVITY 3:</u> Differentiate between internal & external data with suitable examples. [VERBAL]</p>												
<p><u>ACTIVITY 4:</u> Compose a SONG/ RAP/POEM on data & write in the Economics register. [MUSICAL]</p>	<p><u>ACTIVITY 5:</u> Draw a pie chart of your class X CBSE result. Analyze the contribution of each subject in your aggregate marks. [COMPULSORY ACTIVITY]</p>	<p><u>ACTIVITY 6:</u> Make a table to record the minimum & maximum temperature as well as humidity for any 7 days of June'23. [NATURALIST]</p>												
<p><u>ACTIVITY 7:</u> Act as a news channel's correspondent & gather information from TWO neighbours on improvements that can be made in the society/area. [INTERPERSONAL]</p>	<p><u>ACTIVITY 8:</u> Collect & tabulate data for 5 days on the number of hours you spend on the daily activities, like sleeping, eating, studying, playing watching TV etc. Analyze the collected data. [INTRAPERSONAL]</p>	<p><u>ACTIVITY 9:</u></p> <div style="text-align: center;">  <table border="1" style="margin: 10px auto;"> <caption>Q3 Sales Data</caption> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Clothing</td> <td>35%</td> </tr> <tr> <td>Footwear</td> <td>17%</td> </tr> <tr> <td>Accessories</td> <td>24%</td> </tr> <tr> <td>Novelty Items</td> <td>19%</td> </tr> <tr> <td>Fragrances</td> <td>5%</td> </tr> </tbody> </table> </div> <p>Q 1: What is the percentage sale of all items excluding clothing? Q-2: Calculate the central angle in the pie chart for Footwear. [VISUAL]</p>	Category	Percentage	Clothing	35%	Footwear	17%	Accessories	24%	Novelty Items	19%	Fragrances	5%
Category	Percentage													
Clothing	35%													
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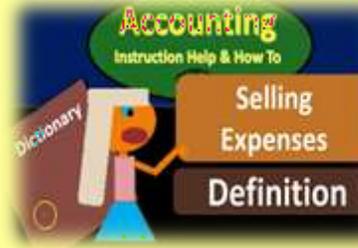
Q2: Design an infographic to illustrate any 5 demographic indicators of the census of 1971, 1981, 1991, 2001, 2011. Analyse the trends in these demographic indicators.

Q3: Draft a questionnaire on any one of the following topics:

- a) Food preferences
- b) Health & wellness habits
- c) Satisfaction with products or services

ACCOUNTANCY
BASIC ACCOUNTING TERMS
Class: XI

Do as many activities as you can (minimum 3 activities to be done). Activity with * is compulsory for all.

<p><u>Sing</u></p> <p>Create a rap song/poem Including the terms of accounting and their usage in the books of accounts.</p> 	<p><u>LET'S GAMIFY</u></p> <p>Create a Word Search Puzzle with ACCOUNTING TERMS hidden among other letters.</p> 	<p><u>COMIC STRIP</u></p> <p>Create a comic strip where students are explaining the accounting terms through real life scenario.</p> 
<p><u>THESAURUS</u></p> <p>Create a booklet of terms used in accounting along with their meaning and example.</p> 	<p><u>BECOME A QUIZ MASTER*</u></p> <p>Prepare a quiz (kahoot, quizziz or any other online tool) of 10 questions on the questions about basic accounting terms</p> 	<p><u>IT'S ALL ABOUT ACTING!!</u></p> <p>Make a script in which students are playing the roles of different accounting terms and act them in different ways for better understanding.</p> 
<p><u>PRESENT YOUR IDEAS</u></p> <p>Make a ppt, posters or an infographic illustrating the accounting terms and their relationships with different aspects in the real world.</p>	<p><u>LET'S APPLY</u></p> <p>Make 2 -3 case studies involving scenarios or problems using accounting terms and their application in real life.</p>	<p><u>LET'S ANALYSE</u></p> <p>Find out the Balance sheet and Income Statements of a two or more companies and highlight the various</p>



Class XI

PAINTING

1. Five compositions-
 - a. Pilgrimage
 - b. Marriage procession
 - c. Lunch break at school
 - d. Foggy winter morning
 - e. Traffic jam
2. Five Nature studies

**PHYSICS
CLASS XI**

TOPIC:LAWS OF MOTION

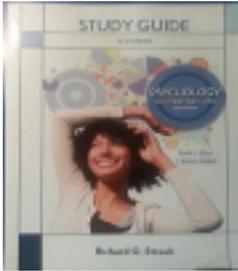
Attempt any 3 activities .The activities must be chosen in a horizontal, vertical or diagonal line in such a manner that the mandatory quiz activity is included.

<p style="text-align: center;"><u>Activity 1</u> TEST YOUR BIO WITH PHYSICS</p> <p>Investigate how Newton's Laws apply to human movement and biomechanics, such as walking, running, or jumping, and submit your report.</p>	<p style="text-align: center;"><u>Activity 2</u> I LOVE PLAYING</p> <p>Create an infographic highlighting examples of Newton's Laws in action during various sports activities.</p>	<p style="text-align: center;"><u>Activity 3</u> APPRECIATION OF GREAT WORK</p> <p>Find out more information about Sir Issac Newton . Write his biographical sketch in not more than 500 words. You may add pictures also.</p>
<p style="text-align: center;"><u>Activity 4</u> I AM AN INFLUENCER</p> <p>Develop a social media campaign advocating for seat belt usage, incorporating scientific explanations of inertia and real-life testimonials or statistics.</p>	<p style="text-align: center;">MANDATORY ACTIVITY</p> <p style="text-align: center;">QUIZ ON LAWS OF MOTION</p> <p style="text-align: center;"><i>Link will be shared by the subject teacher .</i></p>	<p style="text-align: center;"><u>Activity 5</u> LET'S PAINT</p> <p>Make a poster on A3 sheet showing various activities based on Newton's laws of motion with very brief write up against each activity.</p>
<p style="text-align: center;"><u>Activity 6</u> I AM A BLOGGER</p> <p>Write a blog to express your views on what will happen if laws of motion disappear from nature .</p>	<p style="text-align: center;"><u>Activity 7</u> BE A COMPOSER</p> <p>Write a poem to appreciate the laws of motion.</p>	<p style="text-align: center;"><u>Activity 8</u> I AM A VIDEOGRAPHER</p> <p>Record a video with your parent driving a car to see what happens to you (while sitting on the back seat of car) when your parent starts and stops the car suddenly. Explain your observations in the video itself.</p>

Praveen Kapoor

Psychology
CLASS XI

Do as many activities as you can (minimum 3 activities to be done).
Activity with * is compulsory for all.

<p>PODCAST</p> <p>Record an audio file (using any app) explaining the concept of what is psychology, its scope and various branches.</p>  <p>Linguistic intelligence</p>	<p>Play/drama</p> <p>Prepare a play on any psychological disorder.</p>  <p>Kinesthetic intelligence</p>	<p>SONG</p> <p>Create a song or rap using the vocabulary and concepts of Mental health</p>  <p>Musical intelligence</p>
<p>LIFE WITHOUT SYMMETRY Prepare a ppt explaining disciplines/fields of psychology.</p>  <p>Existential intelligence</p>	<p>QUIZ</p> <p>Prepare a quiz (Kahoot or Google form or using any other online tool in a group of 4 students) of 10 questions (with answer key) on the concept of psychology.</p>  <p>Interpersonal intelligence</p>	<p>E-TOUR</p> <p>Write about your personal experience and paste pictures (on a word document) of "psychology in everyday life"</p>  <p>Intrapersonal intelligence</p>

E-POSTER*

Make a collage of various psychologists as covered in chapter-1



Spatial intelligence

PADLET

Collect images of 'branches of psychology'. Share the link of the padlet with your teacher.



Naturalistic Intelligence

CROSSWORD

Create a crossword puzzle (using any app) using the vocabulary words related to the concept of psychology

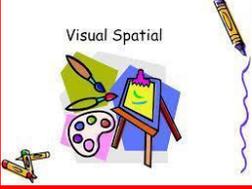


Logical Intelligence

Business studies

CLASS XI

Attempt any three activities from the nine given activities. Activity in the centre is compulsory.

<p>Visual intelligence Draw a chart showing choice of form of business organisation</p>  <p>Visual Spatial</p>	<p>Kinesthetic intelligence Prepare a role play on exploring dynamics of Hindu undivided family.</p> 	<p>Musical intelligence Create a song or rap on the following topics: HUF Sole proprietor Company Cooperative society</p> 
<p>Intrapersonal intelligence Create a blog focussing on companies listed on National stock exchange, uncovering key insights about its history, board of directors and financial statements etc.</p> 	<p>Interpersonal intelligence Interview any sole proprietor from a nearby area to gain first hand insights into challenges faced & opportunities seized in comparison to other forms of business organisation.</p> 	<p>Linguistic intelligence Write a story on any successful cooperative society.</p> 
<p>Logical intelligence Create a detailed flow chart illustrating steps involved in formation of a company</p> 	<p>Naturalistic intelligence Conduct a field study to observe & document different local businesses, analysing their organisation structure</p>	<p>Existential intelligence Conduct research on how different forms of business organisation impact community & shape individual sense of identity & purpose.</p>

& their operations.



MATH
CLASS – XI
TOPIC – RELATIONS AND FUNCTIONS

Instructions:

1. Choose any three activities.
2. These activities may be in a horizontal, Vertical or diagonal in a line.
3. Case studies are compulsory.

<p><u>Linguistic Intelligence</u> STORY ON RELATIONS AND FUNCTIONS Write a life story about the Mathematicians who developed the concepts of Relations and Functions. Enhance by adding relevant images.</p>	<p><u>Musical Intelligence</u> SONG/RAP Create a song or a rap using the vocabulary and concepts of Relations and Functions.</p>	<p><u>Bodily Kinesthetic Intelligence</u> SPORTS INTEGRATION. Find different sports involving the application of Relations and Functions and represent them in a Collage with a little explanation of the concept used.</p>
<p><u>Logical Mathematical Intelligence</u> STUDY ON DIFFERENCE BETWEEN RELATIONS AND FUNCTIONS Find at least two examples from daily life to differentiate between Relations and Functions Enhance by adding suitable images.</p>	<p><u>COMPULSORY</u> Create 2 Case Studies /Source based questions with illustrations on Relations and functions.</p>	<p><u>Interpersonal Intelligence</u> ROLE PLAY Write Dialogues[min.10] between two persons in role of Relations and Functions discussing their importance over the other. Enhance by adding images.</p>
<p><u>Visual- Spatial Intelligence</u> ART INTEGRATION Create an E- poster involving figures arranged in Relations and Functions.</p>	<p><u>Intrapersonal Intelligence</u> SELF REFLECTION Write a Paragraph on 'Experience with Relations and functions' Word limit =100 words Enhance by adding suitable images</p>	<p><u>Naturalistic Intelligence</u> NATURE BASED Collect images of nature based on Relations and Functions and make a collage on A4 sheet</p>

BIOLOGY
CLASS XI
Topic: Animal Kingdom



<p>Research assignment:</p> <p>Choose an animal phylum (e.g., chordata, arthropoda, mollusca) and conduct research on its characteristics, classification, and representative organisms. Create a presentation or infographic to share your findings with the class.</p>	<p>Classification game:</p> <p>Create a card game where players match animal characteristics to their corresponding phyla. Include images and brief descriptions to aid in identification. Play the game with your classmates to test their knowledge.</p>	<p>Taxonomy timeline:</p> <p>Research the historical development of animal classification systems. Create a timeline highlighting key milestones, including contributions from scientists like carolus linnaeus, ernst haeckel, and others. Present your timeline to the class.</p>
<p>Phylum profile:</p> <p>Select one animal phylum and create a detailed profile showcasing its diversity. Include information on its anatomical features, habitat, reproduction, and ecological importance. Present your profile creatively, such as through a poster, brochure, or digital slideshow.</p>	<p><u>START HERE:</u></p> <ul style="list-style-type: none"> ● Read the chapter “animal kingdom” thoroughly. ● Evolutionary tree: <p>Construct an evolutionary tree depicting the relationship between different animal phyla. Use diagrams, illustrations, or digital tools to visualize the evolutionary connections. Explain the evolutionary</p>	<p>Virtual Zoo Tour:</p> <p>Explore an online virtual zoo or wildlife sanctuary that features diverse animal species. Identify and classify animals from different phyla, noting their unique characteristics and adaptations. Create a virtual tour guide or blog post describing your observations and insights.</p>

	<p>significance of key adaptations and milestones.</p> <ul style="list-style-type: none"> • Proceed to complete two more tasks diagonally, horizontally, or vertically. • Turn in your work to google classroom when completed 	
<p>Taxonomic treasure hunt:</p> <p>Create a scavenger hunt activity where students search for examples of different animal phyla in their local environment or online resources. Compile a list of clues or questions related to specific characteristics or behaviors of animals. Work in teams to complete the treasure hunt and present your findings.</p>	<p>Debate:</p> <p>Organize a debate on the topic of animal classification methods. Divide the class into teams representing different viewpoints, such as traditional linnaean taxonomy versus modern molecular phylogenetics. Prepare arguments supporting your assigned perspective and engage in a structured debate.</p>	<p>Creative project:</p> <p>Choose a creative medium (such as art, music, poetry, or storytelling) to express your understanding of animal diversity and classification. Create a piece of artwork, a song, a poem, or a short story inspired by the richness of the animal kingdom. Share your creation with the class and explain its relevance to the topic.</p>

Physical Education
CLASS XI

1. Prepare a physical education practical file
2. This will be your board's practical file so make it creatively and presentable.
3. The Topic which you have to write is:
 - Practical-1: Fitness tests administration. (SAI Khelo India Test)
 - Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
 - Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.

HISTORY
CLASS XI
TOPIC : ROMAN EMPIRE

The table in the given below has 9 activities. It is called the CHOICE BOARD. Activity 5 is a compulsory activity for all students. Out of the remaining activities, choose any TWO which interest you and complete the task as per the instructions given.

<p>ACTIVITY 1: Create a TIMELINE Chart the key events and emperors from the founding of Rome to its fall. Include visuals and brief descriptions.</p> 	<p>ACTIVITY 2: Roman Fashion Show: Research Roman clothing styles (toga, stola, pallium) based on social status and gender. Create a presentation showcasing different outfits and their significance.</p> 	<p>ACTIVITY 3: Roman Rhetoric: Research the importance of public speaking in Roman society. Choose a famous Roman figure (e.g., Julius Caesar, Cicero) and write a persuasive speech they might have delivered</p> 
<p>ACTIVITY 4: Architectural Analysis: Choose a significant Roman architectural structure (e.g., Pantheon, aqueduct, Forum). Research its construction techniques, purpose, and historical significance. Create a detailed sketch or model of the structure.</p>	<p>ACTIVITY 5: Legacy of the Roman Empire Make a Research project (10-15 pages) on Roman Empire contribution to the modern world in field of</p> <ul style="list-style-type: none"> Architecture Language Technology 	<p>ACTIVITY 6: Fictional Roman Diary Write a creative diary entry from the perspective of a Slave during the Roman Empire</p> 



[COMPULSORY ACTIVITY]

ACTIVITY 7 : Roman Law and Government

Investigate how the Roman Legal system and Government structure laid the foundation for Modern Democracies



ACTIVITY 8:Travel Trivia

Create a travel brochure for tourists visiting ancient Rome. Highlight the key historical sites, cultural activities, and everyday life experiences visitors might encounter.



ACTIVITY 9:

Mythological Mosaic: Design a mosaic artwork depicting a scene from a Roman myth. Include a written explanation of the story and its significance in Roman culture.



ENGLISH

CLASS XI

INSTRUCTIONS:

1. Attempt any 3 activities from 9 of the attached Choice board.
2. The activity in the centre is compulsory for all.
3. All activities have to be attempted on A4 sheets and kept safely to be added to the Portfolio.

<p>VISUAL - SPATIAL <i>Visual-spatial intelligence and creativity work hand-in-hand, drawing on an active imagination to produce impressive visual work.</i></p> <p>Activity: Designing a cover page Design an impressive cover page for any one of the following texts.</p> <ul style="list-style-type: none">● A Photograph● Portrait of a Lady● The Summer of a Beautiful White Horse	<p>LINGUISTIC – VERBAL <i>Linguistic intelligence gauges someone’s ability to use words effectively.</i></p> <p>Activity: Time for Tet-e-Tet In pairs, write, conduct and record an interview with Aram (The Summer of a Beautiful White Horse) highlighting his experience, fears and emotions felt while riding the horse with Mourad.</p>	<p>LOGICAL <i>Logical intelligence refers to the ability to solve mathematical problems, spot trends and patterns and understand relationships.</i></p> <p>Activity: Note Making and Summary Writing Read the Chapter: The Ailing Planet and prepare logical and effective notes of the same along with its summary.</p>
<p>MASS COMMUNICATION <i>Mass communication intelligence refers to the ability to communicate with the masses.</i></p> <p>Activity: Classifieds on a page Study the Classifieds page of any National Newspaper and prepare a page (A4 sheet) presenting all the different types of classified advertisements in the same light as that of</p>	<p>NATURALISTIC <i>Naturalist intelligence refers to the ability to read and understand nature vis-a-vis society.</i></p> <p>Activity: Posters for a cause In reference to the climate woes and human actions against the environment that lead to natural disasters, create posters on A4 sheets to</p>	<p>INTERPERSONAL <i>Interpersonal intelligence or emotional intelligence refers to the link between intelligence and emotions.</i></p> <p>Activity: Letters to Characters Write a letter to any one character of your choice from the text ‘We are not Afraid to Die’ congratulating them on their feat of completing the journey safely. 150 - 180 words</p>

<p>the newspaper. Write minimum two of each kind.</p>	<p>spread awareness on any one of the following.</p> <ul style="list-style-type: none"> ● Climate Change ● Stop Single Use Plastic ● Save Aquatic Life. 	
<p>INTRAPERSONAL <i>Intrapersonal intelligence refers to self-awareness and people's ability to understand themselves.</i></p> <p>Activity: Debating the need for AI Analyse your own thoughts vis-à-vis the popular ideas in the society to write your debate on the topic 'Artificial Intelligence is Dangerous' with at least 2 evidences to highlight the same. (min. 200 words)</p>	<p>ARTISTIC <i>It refers to someone's ability to use any art form to create learning opportunities.</i></p> <p>Activity: Caricatures and Comic Strip Create at least two caricatures to present any one minimum six frames of pictures and dialogues of a comic strip representing the text 'The Mother's Day'.</p>	<p>EXISTENTIAL <i>Existential intelligence refers to deep sensitivity and people's ability to handle deep questions such as the meaning of existence, it's one of the most complex of the nine types of intelligence.</i></p> <p>Activity: Having Faith As the grandmother in the story 'The Portrait of A Lady', write a diary entry about your experience on moving to the city and the changing relation with your grandson. Do not forget to mention on the faith that kept you going even when the grandson moved abroad. (150 – 180 words)</p>