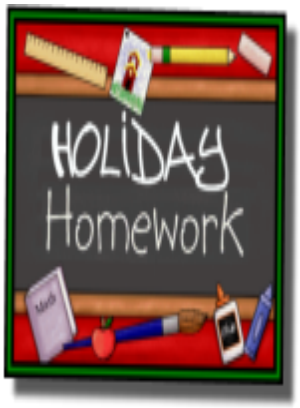
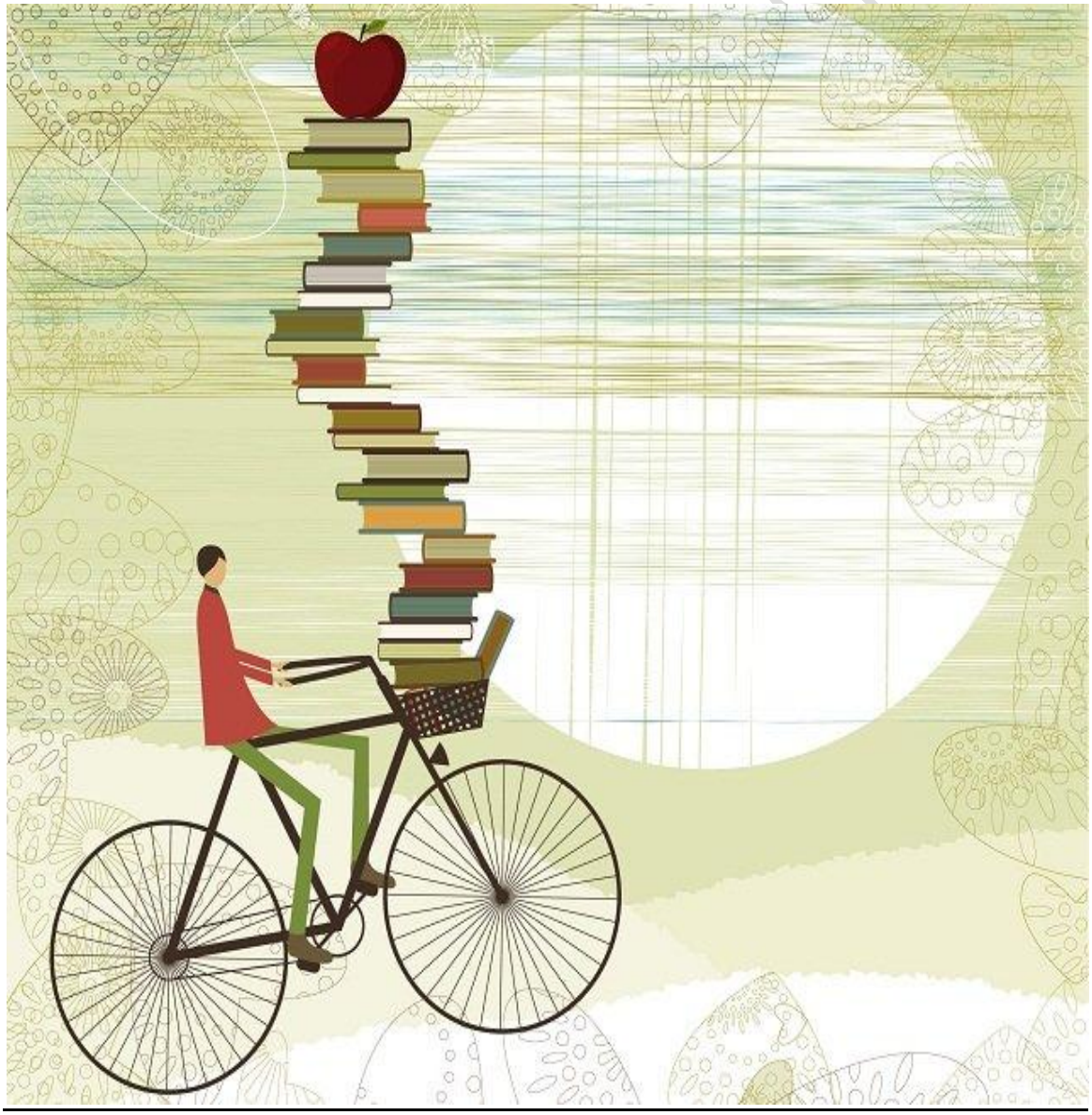
AL AIN JUNIORS INDIAN SYSTEM, AL AIN

GRADE 10

SUMMER VACATION ASSIGNMENTS 2017-18





ENGLISH

Individual assignment:

Students will read the novel '*The Story of My Life - 1903* By Helen Keller (unabridged edition)**'and will prepare a chapter Question Bank with the Answers.**

Group Assignment:

Prepare a Manuscript Magazine.

Each class will prepare a class Manuscript magazine. It will be a compilation of individual works.

Magazine will include: cover page, content, Editorial, Articles, poems, Short stories, essays, drawings and facts.

It should have minimum of 20 pages excluding the cover pages.

The date of submission : 10th September, 2017

The Criteria for assessment:

Creativity
Relevance
Originality
Neatness
Punctuality

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FRENCH

General Instructions:

- Students are requested to do research online or at Libraries around Al Ain. Please visit the Library at Al Ain at French Institute Alliance Francaise d'AlAin for more info.
https://ae.ambafrance.org/L-Alliance-Francaise-d-Al-Ain-1941

FRENCH PROJECT

1) Research on the Political System of France and India and write a letter to your Indian friend explaining the similarities and differences between both the systems.

(80 words)

Or

2) Rendre visite au musée et écrivez une revue. Visit any museum in UAE or abroad and write a short write-up on it. (30-35 words)

SECTION A - READING

1. Lisez le passage at répondez aux questions suivantes :

HISTOIRE DE NEW YORK

Autrefois, l'île de Manhattan était habitée par deux tribus indiennes, les Iroquois et les Algonquins.
Bien que les Français et les Britanniques soient passés dans les environs au XVIe siècle, il fautattendre 1613 pour qu'une colonie européenne s'installe sur l'île. Ce sont des Hollandais quidécouvrent l'intérêt de cet emplacement protégé par une vaste baie. En 1626, Peter Minuit, ledirecteur de la Compagnie hollandaise des Indes rachète Manhattan aux Indiens contre quelquesobjets d'une valeur estimée à 24 dollars. Sans le savoir, il vient de réaliser la plus belle affaire de tousles temps !
Malheureusement, en 1664, le gouverneur Peter Stuyvesant perd la ville au profit des Britanniques quila rebaptise New York en l'honneur du Duc d'York, le frère du roi.
En 1783, la Grande-Bretagne reconnaît l'indépendance des Etats-Unis. Un an plus tard, GeorgesWashington est élu premier président des Etats-Unis et prête serment au Federal Hall à Wall Street.
En 1886, la statue de la Liberté rejoint son socle à l'entrée du port et devient un symbole mondial. Enun siècle, New York est devenue la capitale économique, financière et commerciale du pays.

QUESTIONS

A. Répondez :
1. Qui a-t-il acquis Manhattan en 1626 des Indiens ? Qu'est-ce il a payé pour cet achat ?
2. Comment la ville de New York a-t-il obtenu son nom ?

B. Trouvez ou cherchez dans le texte :
1. La forme verbale de : « une élection ».
2. La forme nominale de : « entrer ».
3. Un synonyme de : « lieu ».
4. Un verbe à la forme subjonctif.

C. Dites *vrai* ou *faux* :
1. Avant que l'île de Manhattan devienne une colonie européenne, elle appartenait aux Indiens.
2. En 1783, Georges Washington est élu premier président des États-Unis.

D. Complétez avec les mots du texte :
1. La science médicale avait à ce moment-là réussi à vaincre les maladies qui a tué des

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Millions _____.
2. Nousvous remercions de votre _____ en nos services.
3. L'Inde est _____ par les hautes montagnes de l'Himalaya au nord.
4. Pierre me _____ souvent de l'argent et je n'oublie jamais de le lui rendre.

SECTION B – WRITING

(Write the below given letter in your French Register and learn it)

1) Ecrivez une lettre à votre ami/amie en Inde pour lui raconter comment être en plein forme. (Environs 80 mots)

Al Ain, le 15 Mars 2017

Chère Anjali,

Comment vas-tu ? Je vais bien. Mais j'ai entendu que tu étais malade et trop stressé à cause des examens. Donc, dans cette lettre, je vais te décrire qu'est-ce que tu dois faire pour te remettre en plein forme.

Tout d'abord, il ne faut plus manger de fast-food. Dites au revoir aux burgers, aux chips et au coca. Tu peux te réveiller une demi-heure plus tôt le matin pour faire du jogging. Tu peux aussi te promener au matin ou au soir pour une demi-heure. En plus, tu dois manger de la salade et des crudités. Aussi il faut boire beaucoup d'eau régulièrement. Parfois, tu peux aussi faire du sport comme le tennis et tu te sens toujours en bonne santé.

Réponds- moi vite !

Amitiés

XYZ

2) Ecrivez un message à votre ami (e) en lui invitant pour un concert

dans votre quartier. (30-35 mots)

SECTION C – GRAMMAIRE

1. Complétez avec (ce /cet / cette / ces / celui-ci / celui-là / celle-ci…etc.) :

a. _____ film, c'est _____ que j'ai vu plusieurs fois.

b. ____ voiture, c'est ____ qu'il a préférée.

c. _____ romans, ce sont ____ qui m'a beaucoup fasciné.

d. ____ fruit, c'est ____ que mon ami m'a donné pour goûter.

e. Ces peintures, ___ sont ____ que j'ai beaucoup admirées.

2. Répondez au négatif :

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a.Va-t-il au restaurant tous les jours ?

Non, il ne va (plus / jamais / pas encore /rien) au restaurant.

b.As-tu acheté quelque chose au marché ?

Non, je n'ai (personne / pas / rien / jamais) acheté au marché.

c.Ont-ils rencontré quelqu'un devant le lycée ?

Non, ils n'ont rencontré (jamais/ plus / personne / pas) devant le lycée.

d.Mange-t-elle des œufs ?

Non, elle ne mange (pas des œufs/ rien des œufs / pas de œufs / pas d'œufs).

e.Apprend-elle toujours le français ?

Non, elle n'apprend (pas / plus / pas encore / personne) le français.

3. Répondez aux questions suivantes avec les pronoms convenables :

a. Tu m'envoies ces fruits ? Oui, je te (les/leur/ en) envoie.

b. Tu écris des lettres à tes parents ? Oui, je leur (les/ en/ elles) écris.

c. Envoie-t-il des fleurs à Chennai ? Oui, il y (les/ elles / en) envoie.

d. Donne-t-il les exercices à ses élèves ? Oui, il les (eux / leur / ils) donne.

e. Envoie-t-elle des cadeaux à son ami à Mumbai ? Oui, elle lui (en / les / eux) envoie.

4. Mettez les verbes au temps convenables :

a. Si vous êtes riches, vous _____ (pouvoir) acheter une maison. (pouvez / pourez / pourrez)

b. Quand vous _____ (terminer) votre travail, vous aurez votre salaire. (terminerez / aurez terminé / aurait terminé)

c. Hier, comme il ___ (faire) beau, j'ai fait une promenade. (fesait / faisez / faisait)

d. Bientôt, nous _____ (recevoir) nos diplômes. (allont recevoir / reçevrons / allons recevoir)

f. Après mon devoir, j'_____ (aller) voir un film. (aurai / ira / irai)

5. Corrigez les fautes s'il y en a :

Mes étudiants sont très motivé. Ils veulent parler la langue français. Ils s'intéressent à lisent des romans. Ils désirent d'aller à la France.

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6. Reliez les phrases en utilisant qui /que / où / dont :

a. Nargis a des amis étrangers. Ils sont très gentils.

b. Pauline a acheté une nouvelle voiture. Je ne l'ai pas aimée.

c. Denis a écrit cet article. Notre professeur en a parlé.

d. L'Inde est un pays magnifique. Il se trouve en Asie.

e. Singapore est une belle ville .J'y suis souvent allé.

Section – D (Culture et Civilisation)

1. <u>Répondez des questions suivantes</u> :

a) Qu'est – ce que c'est la Corse. La Corse est grande?

b) Qu'est- ce que le IUT ?

c) Dans quelle classe entre-t-on au collège en France ?

d) Nommez quelques monuments en France ?

c) Nommez une conte de fée?

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HINDI

1 निर्देशानुसार उत्तर लिखिए।

1 शब्द किसे कहते हैं उदाहरण सहित बताइए।
2 पद किसे कहते हैं उदाहरण सहित बताइए।
3 शब्द पद कब बनता है
4 शब्द के दो रूप लिखिए।
5 पद के कितने भेद होते हैं। पद के भेदों के नाम लिखिए।

2 वाक्य शुद्ध करके लिखिए।

1 मोहन के पुस्तक पढ़ी।
2 तुमके यह क्या करा।
3 गीता के गरीबों को कंबल बँटवाए।
4 मैं गृहकार्य नहीं किया।
5 मुझे दस रूपया चाहिए।
6 अध्यापक आपको बुलाया है।
7 मेरे को कुछ नहीं मालूम।
8 मैं ने कल मुंबई जाना है।
9 तुमके जीत हासिल की।
10 कृष्ण के कंस को मारा।

3 समास विग्रह करके लिखिए।

1 देशनिकाला
2 भारतरत्न
3 शम्मानप्राप्त
4 महात्मा
5 रोगमुक्त
6 शोकमग्न
7 तुलसीकृत

8 हिमालय
9 भोजनसामग्री
10 मृगनयन
11 जेबकतरा
12 भयभीत
13 विदेशगमन
14 स्वर्णकार
15 धनप्राप्त
16 आरामकुर्सी
17 चरणकमल
18 नगरगत
19 लोकप्रिय
20 संगीतनिपुण

3 पत्र लेखन

1पुस्तक बैंक से सहायता प्राप्ति हेतु प्रधानाचार्य को प्रार्थना पत्र लिखिए।

4 Do all the exercises send on your mail.

5 Complete all lessons notes.

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MALAYALAM

1.ഇതുവരെ പൂർത്തിയാക്കിയ എല്ലാ പാഠഭാഗങ്ങളും എഴുതി പഠിക്കുക

2. പരാവർത്തനം, ആശയവിപുലനം, ഉപന്യാസം, ഇവ പ്രത്യേകം ബുക്കിൽ എഴുതി പഠിക്കുകയും,ബുക്ക് ക്ലാസിൽ കൊണ്ടുവരികയും ചെയ്യുക.

3. കൂടുതൽ പ്രയോജനകരമായ നേവലുകൾ, വിദ്യഭ്യാസ സംബന്ധമായ പത്ര വാർത്തകൾ, തുടങ്ങിയവ വായിക്കുകയും, അതെക്കുറിച്ച് കുറിപ്പെഴുതുകയും ചെയ്യുക.

4. പഠിച്ച ഏതെങ്കിലും പാഠഭാഗത്തെക്കുറിച്ച് പവർപോയിൻറ് തയ്യാറാക്കുക

5. ചട്ടമ്പി സ്വാമിയെന്ന പുസ്തകം വായിച്ച് സംഗ്രഹം തയ്യാറാക്കുക.

MATHEMATICS

ACTIVITY BASED ASSIGNMENT

Activity 1: To find the HCF of two numbers experimentally based on Euclids Division Lemma

OR

Activity 2: To verify Basic Proportionality Theorem Using parallel Line Board

OR

Activity 3 : To verify the Pythagoras Theorem by paper cutting ,Paper folding and adjustment

Surf the net for the procedures and material required and submit it in A-4 size paper .
The activity should consist of

1) Aim
2) Material required

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3) procedure
4) Conclusion

II PROJECT BASED ASSIGNMENT

Select any ONE project from the below given list and submit it in the form of an album or booklet or brochure

Project 1: Efficiency in Packing
Project 2: Geometry in daily life
Project 3: Experiment on probability
Project 4: Displacement and rotation of a geometrical figure
Project 5: Frequency of letters/ words in a language text
Project 6: Pythagoras theorem and its extension
Project 7: Volume and surface area of cube and cuboid
Project 8: Golden rectangle and golden ratio
Project 9 : Male- female ratio
Project 10: Body mass index
Project 11: History of Indian Mathematicians and Mathematics
Project 12: Career opportunities
Project 13: Pie (π)

IIISolve all the " IMPORTANT QUESTIONS " from the text book as mentioned in the independent task sheet .

DETAILS OF THE CONCEPTS TO BE MASTERED BY EVERY CHILD OF CLASS X

WITH EXERCISE AND EXAMPLES OF NCERT TEXT BOOK

SYMBOLS USED

*:-Important Questions, **:- Very important Questions, ***:- Very very important Questions

S.No	TOPIC	CONCEPTS	DEGREE OF IMPORTANCE	References(NCERT BOOK)
01	Real Number	Euclid's division Lemma & Algorithm	***	Example -1,2,3,4 Ex:1.1 Q:1,2,4
		Fundamental Theorem of Arithmetic	***	Example -5,7,8 Ex:1.2 Q:4,5
		Revisiting Irrational Numbers	***	Example -9,10,11 Ex: 1.3 Q:1.2 Th:1.4
		Revisiting Rational Number and their decimal Expansion	**	Ex -1.4 Q:1
02	Polynomials	Meaning of the zero of Polynomial	*	Ex -2.1 Q:1
		Relationship between zeroes and coefficients of a polynomial	**	Example -2,3 Ex-2.2 Q:1
		Forming a quadratic polynomial	**	Ex -2.2 Q:2
		Division algorithm for a	*	Ex -2.3

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		polynomial		Q:1,2
		Finding the zeroes of a polynomial	***	Example: 9 Ex -2.3 Q:1,2,3,4,5 Ex-2.4,3,4,5
03	Pair of Linear Equations in two variables	Graphical algebraic representation	*	Example:2,3 Ex -3.4 Q:1,3
		Consistency of pair of liner equations	**	Ex -3.2 Q:2,4
		Graphical method of solution	***	Example: 4,5 Ex -3.2 Q:7
		Algebraic methods of solution a. Substitution method b. Elimination method c. Cross multiplication method d. Equation reducible to pair of liner equation in two variables	**	Ex -3.3 Q:1,3 Example-13 Ex:3.4 Q:1,2 Example-15,16 Ex:3.5 Q:1,2,4 Example-19 Ex-3.6 Q :1(ii),(viii),2 (ii),(iii)
04	TRIANGLES	1) Similarity of Triangles	***	Theo:6.1 Example:1,2,3 Ex:6.2 Q:2,4,6,9,10
		2) Criteria for Similarity of Triangles	**	Example:6,7 Ex:6.3 Q:4,5,6,10,13,16
		3) Area of Similar Triangles	***	Example:9 The:6.6 Ex:6.4 Q:3,5,6,7
		4) Pythagoras Theorem	***	Theo:6.8 & 6.9 Example:10,12,14, Ex:6.5 Q:4,5,6,7,13,14,15,16
05	Introduction to Trigonometry	1) Trigonometric Ratios	*	Ex:8.1 Q:1,2,3,6,8,10
		2) Trigonometric ratios of some specific angles	**	Example:10,11 Ex:8.2 Q:1,3
		3) Trigonometric ratios of complementary angles	**	Example:14,15 Ex:8.3 Q:2,3,4,6
		4) Trigonometric Identities	***	Ex:8.4 Q:5 (iii,v,viii)
		CONCEPT 1		

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06	STATISTICS	Mean of grouped data		
		1. Direct Method	***	Example:2 Ex:14.1 Q:1&3
		2. Assumed Mean Method	*	Ex:14.1 Q:6
		3. Step Deviation Method	*	Ex:14.1 Q:9
		CONCEPT 2		
		Mode of grouped data	***	Example:5 Ex:14.2 Q:1,5
		CONCEPT 3		
		Median of grouped data	***	Example:7,8 Ex:14.3 Q1,3,5
		CONCEPT 4		
		Graphical representation of c.f.(ogive)	**	Example:9 Ex:14.4 Q:1,2,3

01	Quadratic Equation	Standard form of quadratic equation	*	NCERT Text book Q.1.2, Ex 4.1
		Solution of quadratic equation by factorization	***	Example 3,4,5, Q.1, 5 Ex. 4.2
		Solution of quadratic equation by completing the square	**	Example 8,9 Q.1 Ex. 4.3
		Solution of quadratic equation by quadratic formula	***	Example. 10,11,13,14,15 , Q2,3(ii) Ex.4.3
		Nature of roots	***	Example 16 Q.1.2, Ex. 4.4
02	Arithmetic progression	General form of an A.P.	*	Exp-1,2, Ex. 5.1 Q.s2(a), 3(a),4(v)
		nth term of an A.P.	***	Exp. 3,7,8 Ex. 5.2 Q.4,7,11,16,17,18
		Sum of first n terms of an A.P.	**	Exp.11,13,15

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			* ** ***	Ex. 5.3, Q.No.1(i, ii) Q3(i,iii) Q.7,10,12,11,6, Ex5.4, Q-1
03	Coordinate geometry	Distance formula	**	Exercise 7.1, Q.No 1,2,3,4,7,8
		Section formula Mid point formula	** ***	Example No. 6,7,9 Exercise 7.2, Q.No. 1,2,4,5 Example 10. Ex.7.2, 6,8,9. Q.No.7
		Area of Triangle	** ***	Ex.12,14 Ex 7.3 QNo-12,4 Ex.7.4, Qno-2
04	Some application of Trigonometry	Heights and distances		Example-2,3,4 Ex 9.1 Q 2,5,10,12,13,14,15,16
05	Circles	Tangents to a circle		Q3(Ex10.1) Q 1,Q6,Q7(Ex 10.2),4
		Number of tangents from a point to a circle	***	Theorem 10.1,10.2 Eg 2.1 Q8,9,,10,12,13 (Ex 10.2)
06	Constructions	Division of line segment in the given ratio	*	Const 11.1 Ex 11.1 Qno 1

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		Construction of triangle similar to given triangle as per given scale	***	Ex 11.1 Qno-2,4,5,7
		Construction of tangents to a circle	***	Ex 11.2 Qno 1,4
07	Area related to circles	Circumference of a circle	*	Example 1 Exercise 12.1 Q.No 1,2,4
		Area of a circle	*	Example 5,3
		Length of an arc of a circle	*	Exercise 12.2 Q No 5
		Area of sector of a circle	**	Example 2 Exercise 12.2 QNo 1.2
		Area of segment of a circle	**	Exercise 12.2 Qno 4,7,9,3
		Combination of figures	***	Ex 12.3 Example 4.5 1,4,6,7,9,12,15
08	Surface area and volumes	Surface area of a combination of solids	**	Example 1,2,3 Exercise 13.1 Q1,3,6,7,8
		Volume of combination of a solid	**	Example 6 Exercise 13.2 Q 1,2,5,6
		Conversion of solids from one shape to another	***	Example 8 & 10 Exercise 13.3 Q 1,2,6,4,5
		Frustum of a cone	***	Example 12& 14

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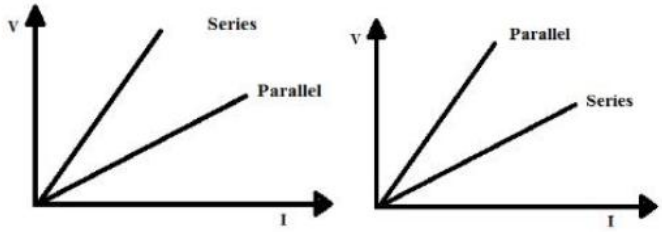
				Exercise 13.4 Q 1,3,4,5 Ex-13.5, Q. 5
09	Probability	Events	*	Ex 15.1 Q4,8,9
		Probability lies between 0 and1	**	Exp- 1,2,4,6,13
		Performing experiment	***	Ex 15 1,13,15,18,24

SCIENCE

PHYSICS

1. There are two electric bulbs (i) marked 60W, 220V and (ii) marked 100W, 220 V .Which one of the two has a higher resistance?
2. Two resistors of 10 and 15 are connected in series to a battery of 6 V.How can the values of current passing through them be compared?
3. When the length of a wire is doubled what is the change in its resistivity?
4. Should the heating element of an electric iron be made of iron, silver or nichrome wire? Why?
5. Two students performed the experiments on series and parallel combinations of two given resistors R_1 and R_2 and plotted the following V-I graphs .Which of the diagrams correctly represent the labels "series and parallel" on the plotted curves? Justify your answer.



6. Why should we not connect an electric bulb and an electric heater in series in our household circuit?
7. Two wires made from the same material and having the same length have diameters in the ratio 2:1.Which will have higher resistance?
8. A current of 4 A flows through a 12 V car head light bulb for 10 minutes. How much energy transfer occur during this time?
9. A piece of wire of resistance 20 Ω is drawn out so that its length is increased to twice its original length.Calculate the resistance of the wire in the new situation.
10. A wire of resistance 30 Ω is bent in the form of a closed circle .What is the effective resistance between the two points at the ends of any diameter of the circle?
11. In a household 4 tube lights of 60W each are used for 5hours and an electric press of 600 W for 3 hours every day. Calculate the electric energy consumed in a month of 30 days.
12. Derive an expression for the heat produced in a conductor of resistance R when a current I flows through it for a time t.

CHEMISTRY

(Acids, Bases and Salts and Chemical reactions)

1. A white substance ''X' having a strong smell of chlorine is used to clear a water tank.
   a) Identify the chemical subsatance X and give its chemical formula
   b) How is the above subsatance X manufactured? Write the chemical equation for its Preparation

   c) List two important uses of this compound
2. When concentrated aqueous solution of X is electrolysed, then NaOH,Cl_2 and H_2 are produced
   a) Name the subsatance X
   b) What is the special name of this process and why is it so called?
   c) Which gas is liberated at anode/
   d) List one important use of each product obtained on electrolysis
3. A chemical compound X is used in soda ac id fire extinguishers and also an ingredient in Antacids

   a) Identify X and give its chemical formula
   b) Write a chemical equation for its preparation starting from NaCl
   c) What happens when this compound is heated strongly?
4. With the help an activity show that hydrochloric acid solution conducts electric current
5. What is your observation when you heat $CuSO_4$ crystals strongly in a boiling tube?
6. What do you understand by the term p H?
7. What are antacids? Give examples.
8. A solution changes the colour of litmus solution from red to blue.What will be the nature and
   P H of this solution?

9. Give one example each of an acidic salt and basic salt

10. What is a skeletal equation?

11. What is a balanced chemical equation?

12. Why is it necessary to balance a chemical equation?

13. Name the gas evolved at anode and cathode on electrolysis of water.

14. Write all your observations when the following subsatances are heated strongly in a boiling tube

    a) Ferrous sulphate crystals
    b) Lead nitrate crystals

15. AgCl turns grey when when kept in sunlight.Give reason

16. A chemical compound X is used in glass and soap industry.Identify the compound and give its Chemical formula. How many molecules of water of crystallisation are present in compound X.

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How will you prepare the above compound starting from sodium chloride. Give all relevant Equations involved in the process

17. What do understand by the term p H scale? How does p H scale help in deciding the acidic or basic nature of a solution. (ii) Write the reactions of hydrochloric acid with Zn and sodium hydrogen carbonate.

18. What is the chemical formula for plaster of paris? How is it prepared? State the common and the chemical names of the compound formed when plaster of paris is mixed with water.

19. Why is plaster of paris stored in an air tight container?

20. Write the chemical formulae of washing soda and baking soda. Which one of these two is an ingredient of antacids? How does it provide relief in stomach ache?

21.Write the name and chemical formula of the substance which on treatment with chlorine yields bleaching powder. Write the equation for the preparation of baking powder using sodium chloride as one of the raw materials.

22. Amongst dry HCl gas and HCl solution, which can show acidic properties

23. When HCl(aq) is exactly neutralized by NaOH(aq), the hydrogen ion concentration in the resulting mixture isalways less than the concentration of the hydroxide ions

a. always greater than the concentration of the hydroxide ions

b. always equal than the concentration of the hydroxide ions

c. sometimes greater and sometimes less than the concentration of the hydroxide ions

24. As the hydrogen ion concentration of an aqueous solution increases, the hydroxide ion concentration of this solution will

a.decrease

b. increase

c. remain the same

25 . Which 0.1 M solution will turn phenolphthalein pink?

a. HBr(aq)

b. CO2(aq)

c. LiOH(aq)

d. CH3OH(aq

25. What is the pH of a solution with a hydronium ion concentration of 0.01 mole per liter?

a. 1

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b. 2

c. 10

26. What is the pH of a 0.00001 molar HCl solution?

a. 1

b. 9

c. 5

d.

METALS AND NON METALS

1. Name two metals which are highly ductile.
2. Give two examples each of acidic, basic and amphoteric oxide
3. What is an alkali? Give examples
4. What is the difference between a mineral and an ore?
5. How will you convert moderately reactive metal oxide to corresponding metals?
6. What is amalgam?
7. Why are electric wires coated with poly vinyl chloride?
8. A student was provided with four samples of Mn,Zn,Na, Fe and Cu metal. He subjected them to some chemical treatment. Which one these
   a. will not displace H_2 from dil HCl?
   b. will react only with steam to evolve H_2 gas?
   c. Will evolve H_2 gas with dil.HNO_3?
   d. Will be displaced from its salt solution by all other metals?
9. Na,K and Li are stored under oil. Why?
10. Can we store copper sulphate solution in a zinc container? Give reasons for your answer
11. Give reasons for the following:
    a. Zn can displace Cu from $CuSO_4$ solution
    b. Ag articles become black after sometime when exposed to air
    c. A metal sulphide is converted to its oxide to extract the metal from a sulphide ore
12. What is galvanization? Give an important application of galvanization in everyday life.
13. Write balanced equation for the reaction when
    a. steam is passed over red hot iron
    b. Aluminium oxide reacts with sodium hydroxide
    c. Potassium oxide is dissolved in water
    d. Zn metal reacts with dilute HCl
14. How will you show that iron is more reactive than copper? Explain with the help of an Activity.

15. An ore on heating in the absence of air gives CO_2.Which method will you use to convert the ore into oxide form? Explain.

16. An element 'X on burning in air forms an oxide XO_2 which when dissolved in water turns Blue litmus red. Identify if 'X'is a metal or a non-metal .Justify your answer

17. With the help of a flow sheet diagram explain how will you extract the following metals

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a. Zn starting from its carbonate ore
b. Hg starting from its sulphide ore

18. Write the constituents of bronze
19. Differentiate between roasting and calcinations
20. What do you understand by the term reactivity series?

BIOLOGY

PROJECT – CONDUCTION AND PROPAGATION OF NERVE IMPULSE

Record work–

To prepare a temporary mount of a leaf peel to show stomata.

To show experimentally that light is necessary for photosynthesis.

To show experimentally that carbon dioxide is given out during respiration

SOCIAL STUDIES

CIVICS - Project Work:(5Marks)

Every student has to compulsorily undertake any one project on the following units/topics.

The Project Report should be handwritten by the students themselves and comprise of not more than 15 foolscap pages.

1. **Popular Struggles and Movements (Civics)**

   a. Bolivia's Water War OR
   b. Nepal's Struggle for Democracy

   OR

2. **Money and Credit (Economics)**

The project has been carefully designed so as to –

a) Create awareness in learners
b) Enable them to understand and co-relate all aspects of selected topic
c) Relate theory with practice
d) Relation of different aspects with life
e) Provide hands on experience

The distribution of marks over different aspects relating to Project Work is as follows: (Rubrics)

S.NO.	ASPECTS	MARKS
1.	Content accuracy and originality	1
2.	Presentation and creativity	1

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3.	ProcessofProjectCompletion:Initiative,cooperativeness, participation and punctuality	1
4.	Viva or written test for content assimilation	2

HISTORY& CIVICS (Notebook Completion)

1. Complete the Given worksheet - **PRINT CULTURE & THE MODERN WORLD**
2. Complete the given questions and answers of CIVICS -
   Chapter – 4 - Gender, Caste & Religion &
   Chapter – 6 – Political Parties

ECONOMICS

Unit: Money and Credit

Topic: **Banking-Forms of Money and Credit Creation. Incorporate the topic with the economics behind the Demonetization of 500 and 1000 Rupees notes and the short Run and the long Run impact on the Indian economy.**

The project has been carefully designed so as to:

1. Create awareness in learners
2. Enable them to understand and correlate all aspects of the selected topic.
3. Relate theory with practice
4. Relation of different aspects with life
5. Provide hands on experience

The distribution of marks over different aspects relating project is as follows:

S. No	Aspects	Marks
1	Content accuracy and originality	1
2	Presentation and creativity	1
3	Process of project completion	1
4	Viva or written test for content assimilation	2

The projects carried out by the students in different topics should be in the topic should subsequently be shared among themselves through interactive sessions such as exhibitions, panel discussions, etc. All documents pertaining to assessment under the activity should be meticulously maintained by the concerned schools. Summary report should be prepared by highlighting:

- Objectives realized through the individual or group interactions
- Calendar of the activities

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- Innovative ideas generated in this process
- List of questions asked in Viva voce

The project report should be handwritten by the students themselves and comprise of not more than 15 foolscap pages.

ARABIC

1 - المهارات الكتابية

اكتب في كتيب صغير موضوعا عن العطلة الصيفية وكيف قضيتها؟ ومتى ؟ ومع من قضيتها؟ وهل استمتعت ام لا؟

1 - المهارات النحوية والتراكيب

AL AIN

استخرج حرف الجر والاسم المجرور وعلامة جره من الفقرة

استيقظ في الصباح الباكر، وأنهض من السرير ،وأغسل وجهي ،أجلس على الكرسي أتناول فطوري ثم أذهب للمدرسة :

حرف الجر	الاسم المجرور	علامة جره
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....

اسمي : .....

الجملة الفعلية والجملة الاسمية

صفي : الثاني 3 / 4

الهدف : يميز الطالب الجملة الاسمية من الجملة الفعلية

صنف الجمل التالية إلى اسمية وفعلية وفق الجدول :

1- يَبْني العصفورُ عُشَّهُ فَوْقَ الشَّجَرَه.

2- الصَّبارُ نَباتٌ يَعيشُ في الصَّحراءِ .

3- يَأْكُلُ الأسدُ اللُّحومَ .

4- يَقْفِزُ الأرنبُ بَيْنَ الأشْجار .

5- أمي تَرْعاني وَتَهْتَمُّ بي

6- يَلْعبُ أخي معي كُرةَ الْقَدمِ .

7- الْكعكةُ لَذيذَةٌ وَطَعْمُها حُلوٌ .

8 – المدينةُ شوارِعُها نظيفَةٌ .

9- يساعِدُ أبي الفقراء .

10 – الولدُ مؤدبٌ .

الجملة الاسمية	الجملة الفعلية

اختر من العمود الأيسر فعلا واكتبه أمام الاسم المناسب له فيما يلي

..... المعلم الدرس .	كتب - رسم
.....اللاعب الكرة.	شرب . رتب
.....الطالب الواجب.	شرح - رمى
..... الطالب الحقيبة .	
..... الطفل الحليب .	
..... الفنان لوحة جميلة.	

AL AIN JUNIORS

التنوين

ورقة رقم ٢٦

اسمي .....

الأهداف: ١- أن يتعرّف الطالب/ة التنوين.
٢- أن يتعرّف الطالب/ة أنواع التنوين.

كان في بغدادَ رجلٌ ركبَتْه ديونٌ كثيرة وهو مفلسٌ، فأمر الحاكم بألا يُقرضه أحد من الناس شيئاً، ومن أقرضه فليصبر عليه، ولا يطالبه بدَيْنه. وأمر الحاكم بأن يُركب على دابة، ويطاف به في شوارع المدينة ليعرفه الناس، ويحترسوا من معاملته. فاستأجر المفلس دابة وطافوا به في المدينة، ثم جاءوا به إلى باب داره. فلما نزل عن الدابة، قال له صاحبها: أعطني أجرة دابتي، فقال المفلس: وأيّ شيء كنّا فيه من الصباح إلى هذا الوقت يا أحمق؟

أكتب الكلمات التي تنتهي بتنوين الضم، والفتح، والكسر كل كلمة في العمود المخصص لها.

كلمات تنتهي بتنوين الضم	كلمات تنتهي بتنوين الفتح	كلمات تنتهي بتنوين الكسر

توقيع وليّ/ة الأمر: .....

الجمل الاسميّة والفعليّة

ورقة رقم ١٧

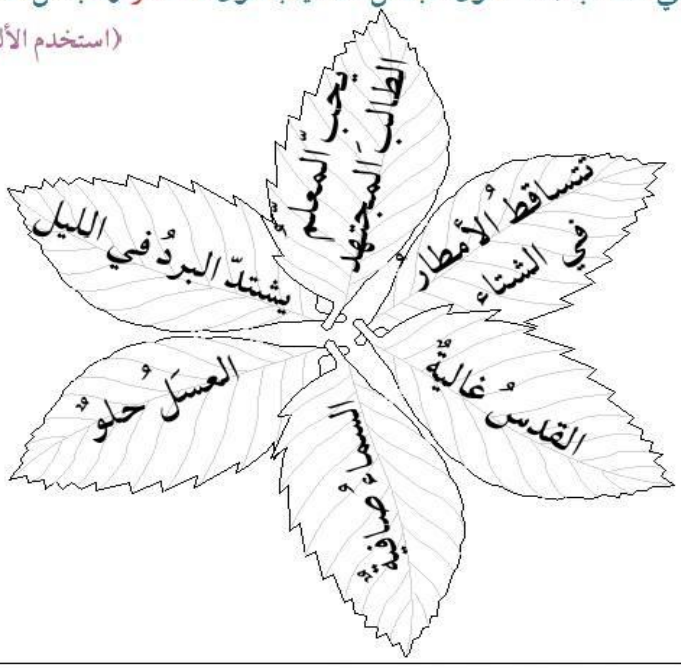
اسمي .....

الأهداف: يميز الطالب/ ة الجمل الفعلية والجمل الاسمية

أتذكّر : الجملة الاسميّة التي تبدأ باسم والجملة الفعليّة التي تبدأ بفعل .

عزيزي/ عزيزتي الطالب/ ة ، لوّن الجمل الفعلية باللّون الأحمر والجمل الاسميّة باللّون الأخضر .

(استخدم الألوان الخشبية)



أملأُ الكوبين بجملٍ فعليّةٍ وجملٍ اسميّةٍ

عزيزي/ عزيزتي المساعد/ة، تابع/ي ابنك/ ابنتك في توضيح ورقة العمل وتنفيذها.

توقيع وليّ/ ة الأمر : .....