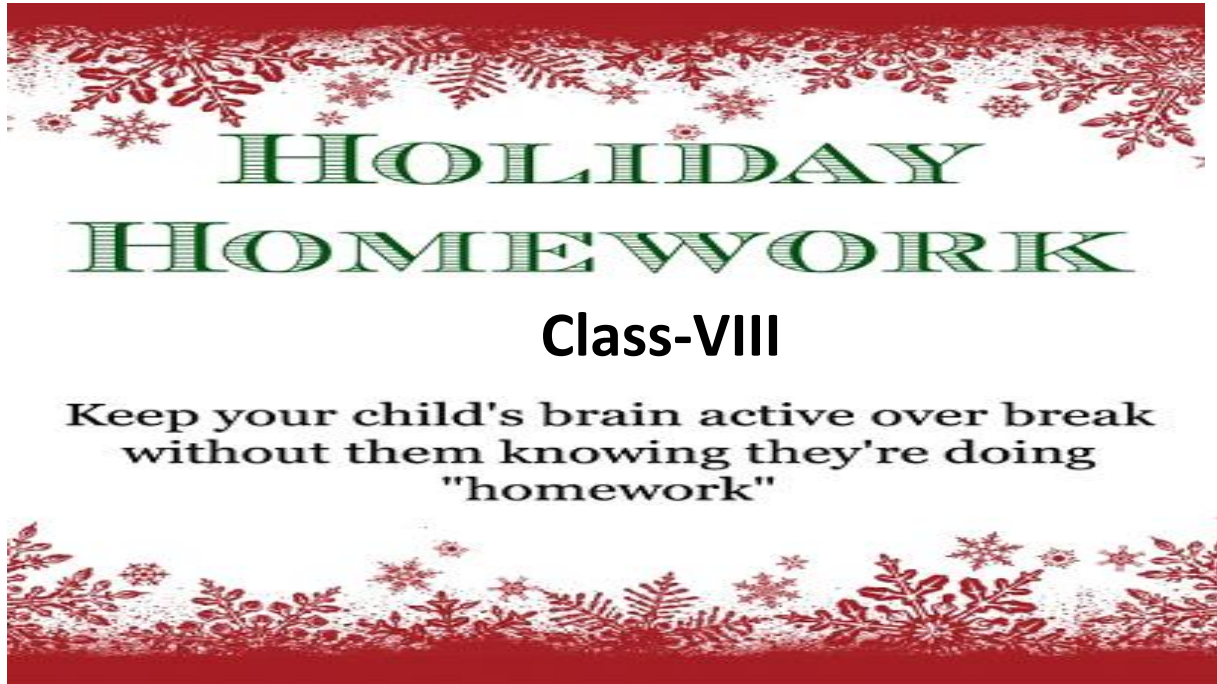


**D.A.V INTERNATIONAL SCHOOL  
SESSION – 2018-2019**



**It's summer time,  
School vacation has begun,  
Time for children to play,  
And have fun in the sun,  
Now the children are out of school,  
There are trees to climb,  
Swimming in the pool.  
Time to spend with special friends  
Seems they're on the go  
Until the days end  
But when summer vacation  
Is finally through, It's time to hit the books And return to school**

## **Dear parents**

- Kindly ensure to share some tips to make this summer vacation a fruitful and happy period for young kids.
- Have at least two meals together with your children.
- Teach them to learn dignity of labour by letting them do their work by themselves.
- Encourage them to plant atleast one sapling this summer vacation and guide them to take good care of the same.

### **General instructions for students :**

1. Read the instructions carefully before starting your assignments.
2. Your work must be very neat and clean . Highlight the headings of your assignments.
3. All files , scrapbooks, projects etc. should be well labelled with the Name , Class and Section of the student. It must be submitted to their respective teachers as per the given schedule.

### **Schedule of submission of Holidays Homework :**

<b>MATHS</b>	<b>2-7-18</b>
<b>ENGLISH</b>	<b>3-7-18</b>
<b>HINDI</b>	<b>4-7-18</b>
<b>SCI.</b>	<b>5-7-18</b>
<b>S.SCI.</b>	<b>6-7-18</b>
<b>PBI.</b>	<b>7-7-18</b>

**School reopens on 2<sup>nd</sup> July 2018 .**

**School timings : 8:00 am - 2:00 pm**

# ENGLISH

## SECTION - A

### Q:1 Read the following passage carefully:

1. The purpose of education should not only be to make our children literate, but to make the earth a better place to live in.
  2. At present apart from the economic challenges of poverty, unemployment and malnutrition, we have challenges like terrorism, dowry deaths, intoxication, stricks and youth unrest. It is only education which can inclulcate a spirit of patience and edurance to meet the challenges to a great extent. It was the power of knowledge alone which was used by Socrates, Aristotle and chanakya to bring about a change in history.
  3. If we go to the vedic period, education was the right of only the male child. Females were kept apart from the mainstream of education. Even, if the king intended to impart education to his daughter, had to appoint a separate tutor.
  4. If we look back, in the past two decades, there has been unprecedented expansion of knowledge. Almost every house has access to newspapers, television and other components of the information system. But the need of the hour is to differentiate between knowledge and wisdom. If we go by knowledge a sickle can be used for cutting grass, cutting wood, cutting the fingers of an enemy and also healthy mango saplings planted by a neighbour. Ist is good education which can make positive mindset and enables one to distinguish between knowledge and wisdom.
  5. A well informed mother can provide nutritional food and security to children. She can play a vital role in the preservation of nutrients and deciding the daily menu and bringing up healthy children who as healthy citizens will be an asset to the nation.
- 1.1 on the basis of your reading of the passage, complete the following statements.
- (a) Alongwith making our children literate the purpose of education should be \_\_\_\_\_
  - (b) Only education can \_\_\_\_\_
  - (c) In the vedic period women were \_\_\_\_\_
  - (d) Good education can not only \_\_\_\_\_ mindset, but also enables to distinguish between\_\_\_\_\_
  - (e) A mother can have a great role in bringing up \_\_\_\_\_ who in turn will be an \_\_\_\_\_.
  - (f) Find out the words from the passage that mean the same as the following from the paragraphs indicated.
    - (i) Inadequate nutrition \_\_\_\_\_ (para 2)
    - (ii) Substance that provides nourishment(para 5)
  - (g) Suggest a suitable title for the above passage.

### Q:2 Read the following poem carefully

#### The sportsman

The road was hilly, the mind was strong,  
The lad gallantly struggled along,  
With never a glance at the downward way,  
Where his comrades shouted, laughed and played,  
Though he longed to be there and joined the sport,

In his brave little heart he crushed the thought,  
 "If I went," he said "I should certainly rue it.  
 When you have promised a thing, you are bound to do it",  
 In life sometimes things won't go well,  
 And 'duty' is a difficult word to spell,  
 But the fellow who sets before his eyes,  
 A high ideal as the worthiest prize,  
 Will shun the evil and follow the good,

And say to himself, as brave lad should  
 it only needs grit and I must not lack it,  
 the world's a hard nut but I mean to crack it !

2.1 On the basis of your reading of the poem, complete the following blanks with suitable words / phrases.

The boy bravely struggled to walk because of the (a) \_\_\_\_\_ and strong winds. He did not (b) \_\_\_\_\_ at the downward way. He wanted to be with his comrades who (c) \_\_\_\_\_. He decided not to go there because he was bound to fulfil his duty. He believed that everything didn't go well in (d) \_\_\_\_\_ and one should value a high ideal as the (e) \_\_\_\_\_ prize.

### Section B

**Q:3** You are Jyoti / Jayant, the cultural secretary of DAV public school. Your school is organizing 'English Week' from 3 Oct – 9 Oct 2017. Write a notice in about 50 words informing the students about the various competitions (such as debate, dramatics, essay writing etc) being organized on the occasion and asking them to participate. Give all necessary details.

### Section C

**Q:5** The following passage has not been edited. There is an error in each of the lines. Write the incorrect word and correction against the correct blank number. Remember to underline the word that you have corrected.

	Incorrect Word	Correct Word
Children love picnics and outings of their parents, Example of with		
through they are equally happier doing things with (a) _____		
them around the house. A parent may make (b) _____		
his child feels special by following some simple (c) _____		
rituals. Bedtime stories, the game of cards or (d) _____		
simply talking and laugh together before going to (e) _____		

bed – some give children a wonderful sense (f) \_\_\_\_\_  
of well – being. They hardly ever forgot these moments, (g) \_\_\_\_\_  
and cherish them throughout these lives. (h) \_\_\_\_\_

**Q: 6** In the paragraph below, a word is missing in each line. Write the missing word against the correct blank number. The first one has been done as an example.

		Word Before	Missing word	Word after
Have you imagined King Arthur’s Round	example	imagined	how	king
Table look while reading the stories?	(a)	_____	_____	_____
Well, you can actually it now as	(b)	_____	_____	_____
the historians have the table around	(c)	_____	_____	_____
which he his knights sat. king arthur’s	(d)	_____	_____	_____
famous Round Table, around his	(e)	_____	_____	_____
Knights congregated first describe in 1155.	(f)	_____	_____	_____
The table is kept safe from and tourists	(g)	_____	_____	_____
who might want to the thousand year old relic	(h)	_____	_____	_____

**Q:7** Rewrite the following words to make meaningful sentences:-

- (a) to memorize / with what you / make connections / already know
- (b) and remember more / to memorize fast / visualize the concept
- (c) faster / material out loud / (re) produce the / to memorize
- (d) to remember more / the material / reproduce/ in writing
- (a) as a guide and strive/ or pencil / keep reading with your finger/ to read phrase by phrase
- (b) in meaningful phrases/but read/ don’t read letter or syllables/ or even words
- (c) to understand what you read/ actually be able/ this is how we speak/ and think , so you should
- (d) finger or pencil/ as you read phrase/ to make your eye go faster / by phrase, use your

**Q:8** fill in the blanks in the given paragraph with only one word in each blank , Choosing the best option from the ones given below.

a bio – engineering marvel (a) \_\_\_\_\_ the cockroach is inspiring researches to build robots capable (b) \_\_\_\_\_ sprinting over rough terrain. “ Humans can run but our capabilities are nothing (c) \_\_\_\_\_ to what insects and some other animals can do “ said john Schmitt, professor (d) \_\_\_\_\_ the oregon state university (OSU) school of Mechanical Engineering who led (e) \_\_\_\_\_ project. “Cockroaches are incredible. They (f) \_\_\_\_\_ run fast, turn on a dime, move easily over rough terrain and react (g) \_\_\_\_\_ perturbations faster than a nerve impulse (h) \_\_\_\_\_ travel, “ Schmitt said.

- |                 |               |                  |               |
|-----------------|---------------|------------------|---------------|
| (a) (i) like    | (ii) likes    | (iii) liked      | (iv)liking    |
| (b) (i) for     | (ii) in       | (iii) of         | (iv) to       |
| (c) (i) compare | (ii) compared | (iii) comparison | (iv)comparing |
| (d) (i) at      | (ii)on        | (iii) in         | (iv) with     |
| (e) (i) a       | (ii) an       | (iii) the        | (iv) that     |
| (f) (i) could   | (ii) may      | (iii) would      | (iv) can      |
| (g) (i) in      | (ii) for      | (iii) to         | (iv) at       |
| (h) (i) can     | (ii) may      | (iii) should     | (iv) will     |

#### Section – D (Literature)

#### Q:9 Extra Questions

1. Describe the Hermit's life.
2. How was the king's first question answered by the learned men?
3. What were the most interesting features of Tommy's book?
4. Which school did Margie like more? Write reasons to support your answers.
5. Compare the mechanical teacher with the human teacher.
6. Who was held responsible for Margie's poor performance and why ?
7. What diverted the king's attention and made him forget about his decision to go back home?
8. What was Swami's dilemma (confusion)?
9. Why did Swami want Samuel to punish him?
10. What did Swami do in order to provoke Samuel to punish him?
11. What was Granny most passionate about and how did she show it?
12. Show that Granny had a good sense of humour.
13. What made the family agree to granny's claim that she would grow old disgracefully as 'she could do it better'?

#### Q:10 Value Based Questions:

1. Do you think everyone of us have inborn capabilities which are unique and make us outshine others? Do you think we need to know and explore our innate capabilities no matter how old we get?
2. What do you think why we all have been sent on this earth?
3. Do you think touch, gesture, compassion and conversation play a vital part in grooming us? what can be the effects of robotic teaching in the long run?
4. Swami pretended to have a headache and when forced by father to go to school changed his tactics by putting false allegations on his teacher Samuel. Do you think it is right to befool your parents and put blame on others?

**Note :** - Present your work on A4 sheets in a very neat and tidy way and put the same in decorated files.

डी.ए.वी इंटरनैशनल स्कूल

विषय:- हिन्दी

ग्रीष्मावकाश हेतु कार्यपत्रिका

कक्षा:- आठवीं

प्रथम सत्र (2018-2019)

1. 'हम पंछी 'उन्मुक्त गगन के' कविता की दृष्टि से समाज में फैले किस भेद - भाव को दर्शाया गया है? क्या यह भेद - भाव समाज को कल्याण की दिशा में ले जाता है?
2. पाठ 'असल धन' के आधार पर बताइए कि व्यक्ति को जीवन में सफलता या तरक्की किस प्रकार मिल सकती है?
3. दारा को कभी स्वयं पर घमंड न हो, इसके लिए उसने क्या किया?
4. शाह की नज़रों में दारा को गिराने के लिए दरबारियों ने क्या योजना बनाई और वह योजना विफल कैसे हो गई?
5. ईरान का शाह पैसों की बजाय बुद्धिमता को महत्व देता था- उदाहरण द्वारा स्पष्ट कीजिए।
6. 'अच्छे पड़ोसी के गुण' के आधार पर बताइए कि तूश के शॉल को लेकर महिलाओं में लड़ाई क्यों हुई।
7. लेखक के लिए तूश का शॉल की परिभाषा क्या थी?
8. पड़ोसियों के आपसी व्यवहार के पीछे वास्तव में क्या भावना थी?
9. 'तारकोल की जली अंगीठी' का आशय बताइए?
10. 'छाँह जलने' का क्या अभिप्राय है?
11. सड़कों पर अकेला ताँगा क्यों दिखाई दे रहा है?
12. पेड़ किसकी तरह लग रहे थे?
13. बापू बोले - "अगर मेरे हाथ से डोरा गुमने लगे तो स्वराज्य भी गुम होने में देर नहीं लगेगी" इस पंक्ति के द्वारा गांधी जी क्या समझाना चाहते थे?
14. सेवाग्राम में कौन आया और उसे गांधी जी ने क्या समझाया?
15. साबरमती आश्रम में किससे आने पर कुर्सी एवं मिट्टी का सकोरा मँगवाया गया और क्यों?
16. पाठ ६ में निहित जीवन मूल्यों के बारे में बताइए?

प्र:- अलंकारों के नाम बताइए:-

- कल कानन कुंडल मोर पखा, उर पे बनमाल बिराजति है।
- मंगन को देखि पट दैत बार - बार है।
- हरिपद कोमल कमल - से।
- मेघ आए बड़े बन - ठन के सँवर के
- मैया मै तो चंद्र- खिलौना लैहों।
- दूरदर्शन (टी.वी) के पसंदीदा कार्यक्रम की चर्चा करते हुए मित्र को पत्र लिखिए।
- अपने स्कूल में मनाए गए 'वनमहोत्सव' की विस्तृत जानकारी देते हुए चाचा जी को पत्र लिखिए।

प्र:- 'सादा जीवन उच्च विचार' विषय पर अनुच्छेद लेखन A<sub>4</sub> शीट पर कीजिए।

प्र:- करवाए गए कार्य की पुनरावृत्ति करें।



ਵਿਸ਼ਾ:- ਪੰਜਾਬੀ

ਕਿਰਿਆ ਪੱਤਰੀ

ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਲਿਖੋ: {ਪਾਠ-4 ਅਤੇ ੬ ਤੇ ਆਧਾਰਤ}

1. ਭਾਸ਼ਾ ਦੇ ਗਣਿਤ ਲੇਖ ਦੇ ਲੇਖਕ ਦਾ ਨਾਮ ਦੱਸੋ?
2. ਥੋੜਾ ਸਮਾਂ ਦੱਸਣ ਲਈ ਵੱਖ-ਵੱਖ ਲੋਕ ਕੀ ਬੋਲਦੇ ਹਨ?
3. ਕਿਸੇ ਦੀ ਉਡੀਕ ਕਰ ਰਿਹਾ ਬੰਦਾ ਸਮੇਂ ਨੂੰ ਕਿਵੇਂ ਦਰਸਾਉਂਦਾ ਹੈ?
4. ਕਿਸਾਨ ਦੀ ਮੀਂਹ ਦੀ ਲੋੜ ਪੂਰੀ ਨਾ ਹੋਣ ਤੇ ਉਹ ਕੀ ਆਖਦਾ ਹੈ?
5. ਥੋੜਾ ਜਿਹਾ ਮੀਂਹ ਆ ਜਾਣ ਤੇ ਘੁਮਿਆਰ ਕੀ ਆਖਦਾ ਹੈ?
6. ਕਿਸੇ ਲੱਖਾਂ-ਪਤੀ ਬਾਰੇ ਆਮ ਬੰਦਾ ਕੀ ਆਖਦਾ ਹੈ?
7. ਕਿਸੇ ਦੀ ਮਾੜੀ ਹਾਲਤ ਦੱਸਣ ਲਈ ਕੀ ਕਿਹਾ ਜਾਂਦਾ ਹੈ?
8. ਅਖਬਾਰ ਦਾ ਪੱਤਰਕਾਰ ਕਿਸੇ ਮੇਲੇ ਵਿੱਚ ਆਏ ਲੋਕਾਂ ਦੀ ਗਿਣਤੀ ਨੂੰ ਦੱਸਣ ਲਈ ਕੀ ਲਿਖਦਾ ਹੈ?

\* ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ੪ ਤੋਂ ੫ ਸਤਰਾਂ ਵਿੱਚ ਦਿਓ।

1. ਦਲਬੀਰ ਨੇ ਚਿੜਾ-ਚਿੜੀ ਦੀ ਕਿਹੜੀ ਘਟਨਾ ਵੇਖੀ?
2. ਦਲਬੀਰ ਨੂੰ ਆਪਣੀ ਹੇਠੀ ਮਹਿਸੂਸ ਕਿਉਂ ਹੋਣ ਲੱਗੀ?
3. ਚਿੜਾ-ਚਿੜੀ ਦੀ ਘਟਨਾ ਤੋਂ ਦਲਬੀਰ ਨੇ ਕੀ ਸਿੱਖਿਆ?

ਵਿਆਕਰਨ ਅਨੁਸਾਰ ਵਿਸਰਾਮ ਚਿੰਨ੍ਹ ਲਗਾਓ:

1. ਕਰਤਾਰ ਅਤੇ ਬਲਕਾਰ ਬਜ਼ਾਰ ਗਏ
2. ਤੁਹਾਡੀ ਪਰੀਖਿਆ ਕਿਹੜੀ ਤਰੀਖ ਤੋਂ ਹੈ
3. ਲੁਧਿਆਣਾ ਅੰਮ੍ਰਿਤਸਰ ਜਲੰਧਰ ਅਤੇ ਪਟਿਆਲਾ ਪੰਜਾਬ ਦੇ ਪ੍ਰਸਿੱਧ ਨਗਰ ਹਨ
4. ਲੁੰਮੜੀ ਨੇ ਕਿਹਾ ਅੰਗੂਰ ਖੱਟੇ ਹਨ

\* ਸਮਾਨਅਰਥਕ ਸ਼ਬਦ ਲਿਖੋ।

ਉੱਤਮ, ਉਦਾਸ, ਅਸਲ, ਅਸੀਸ, ਅਟੱਲ, ਅੰਦਾਜ਼ਾ, ਅਧਿਕ ।

- ਹੇਠ ਲਿਖੇ ਲੇਖਾਂ ਦੀ ਦੁਹਰਾਈ ਕਰੋ।
  1. ਮੇਰਾ ਪੰਜਾਬ
  2. ਪ੍ਰਦੂਸ਼ਣ
- ਪਹਿਲੇ ਸਮੈਸਟਰ ਵਿੱਚ ਦਿੱਤੇ ਗਏ ਸਾਰੇ ਪੱਤਰਾਂ ਦੀ ਦੁਹਰਾਈ ਕਰੋ ਅਤੇ ਪਿਛਲੇ ਕੀਤੇ ਸਾਰੇ ਕੰਮ ਦੀ ਦੁਹਰਾਈ ਕਰੋ।

उमदीर द भायार उ दगडुह के - 1 उ 20 (दरररररररररर)



21 उ 40 (दरररररररररर प्ररर)



ररर ररर  
दरररररररररर  
प्ररर।

## Physics

Q:1 Define friction . Explain the cause of friction.

Q:2 Differentiate between static and sliding friction.

Q:3 With the help of an activity show that liquids exert equal pressure on all walls of container.

Q:4 Write two effects of each balanced and unbalanced forces.

Q:5 State two effects of force. Give two examples of each effect.

**Project : - Imagine that friction were to suddenly vanish altogether .Write a short story /Play on how would our lives be affected .(Only for VIII-F)**

## Biology

1. If you are given a dry piece of land for cultivation, what will you do before sowing the seeds.
2. During which months do farmers grow mustard in India?
3. a)Name the tool used with a tractor for sowing seeds in a field.  
b)What are the advantages of using this tool?
4. Despite favorable conditions farmer's crop failed to give good yield. Give the possible reasons for this.
5. Paddy is a major cereal crop in our country.  
(a) In which season is paddy cultivated?  
(b) Discuss the method of sowing.  
(c) What measures must be taken to prevent spoilage and insect attack on harvested grains ?
6. Define Hybridisation . How is it done ?

### **Project**

**1. Create power point presentation on Agricultural practices. (Only for VIII-A)**

**2.Make project on Kharif and Rabi crops. (Only for VIII-B)**

## (Chemistry)

Q:1 Comment on the statement “Fossils in your car”

Q:2 Petroleum occurs deep inside the earth floating over water. Which property of Petroleum makes it possible to form a separate layer over water.

Q:3 Give reason water is not used to control fires involving electrical equipment.

Q:4 “LPG is a better domestic fuel than wood” Justify your answer

Q:5 Why do we wrap a blanket around a person whose clothes have caught fire?

Project – 1) Make pamphlet indicates (8-10) ways to save non renewable sources of energy(only for VIII-D)

2) Make pamphlets on Bio fuel – their role in reducing the consumption of petroleum (8-10 lines) (only for VIII -G)

## (Geography)

1. Why did early human civilization flourish along the river valleys?
2. What were the needs of early man?
3. Name the tribal community of America which still leads primitive lifestyle.
4. Discuss availability of capital and technology as important factors influencing utilization of resources.
5. Why should we encourage the use of inexhaustible resources over exhaustible resources?
6. Classify the resources on the basis of
  - a) Renewability
  - b) origin
  - c) occurrence
  - d) development of resources
7. Name two minerals which can be recycled?
8. What are actual resources?
9. Discuss the ways to check degradation of resources.
10. Define Humus
11. What is soil ? What is it composed of ?
12. Examine the land use pattern
13. Land use patterns varies from region to region and time to time. Evaluate this statement .
14. What percent of land should be under forest to maintain ecological balance as per scientific norms?
15. Define soil erosion. Assess the factors affecting soil conservation.
16. What is terrace farming ?
17. Define contour farming.
18. Define Surface water.

19. Why is earth called the watery planet?
20. What do you mean by term 'hydrological cycle'?
21. Compare the areas of high rainfall and low rainfall.
22. Highlight salient features of multipurpose river projects.
23. Large dams have come under a lot of criticism from environmentalists. Evaluate this statement.
24. Discuss the measures to conserve water resources.
25. Water is a renewable resource, still we are insisted to conserve it. Illustrate the reason.
26. Examine soil as an important resource.
27. Name the important river valley projects in the world.
28. Discuss the parent rock and Climate as important factors affecting soil formation.

## **History**

Attempt the following questions

1. How do Administrative reports of the government provide us information about Modern Period?
2. What is Imperialism?
3. How did the Age of Imperialism start in India?
4. Define Factories.
5. Discuss the Second Carnatic War.
6. How did Battle of Buxar prove beneficial for British in India. What was its importance?
7. What was Dual Government of Bengal? How did it lead to common man sufferings?
8. Discuss Second Anglo Mysore War.
9. How were the British able to establish their control Over Punjab.
10. Who was Tiger of Mysore. What led to his defeat at Srirangapatnam.

History

Project :- Make a beautiful brochure on any one British Governor General of India. Write about them their work & policies. or on any one Social Reformer of India.

## **Civics Project**

Collect reports and pictures from newspapers which show violation of various fundamental Rights. Against each picture, name the fundamental right in question. (Do it on a chart in a decorative way)

## **Civics – Our Constitution**

### **Answer the following questions:-**

1. What is rule of law?
2. “Rule of law in the basic foundation of a democratic system” Explain this
3. Why do we need constitution?
4. How India is a sovereign country?
5. Define Universal Adult franchise.
6. What do you mean by Independent Judiciary?
7. Name 3 organs of government.
8. “India is a socialist and Secular Country” justify this
9. Write a short note on single integrated judicial system.
10. How many methods of amendments are there?
11. What is Directive principles of state policy?
12. Define fundamental rights.
13. Mention any 2 fundamental Duties.
14. What does Secularism mean?
15. Name the fundamental rights?
16. Traffic in human beings falls under:
  - (a) Right to freedom
  - (b) Cultural & educational Rights.
  - (c) Right against Exploitation
17. Fundamental Duties were incorporated in Indian Constitution in
  - (a) 1976
  - (b) 1987
  - (c) 1950
  - (d) 1972

Locate and label the regions of heavy rainfall and low rainfall on the map of world.



## Maths

**Project** – Collect the data of temperature of your city and any hill station for consecutive seven days and draw the graph on same graph paper for collected data.

**HOLIDAY HOMEWORK** **CLASS VIII**

**SUBJECT : MATHS** **ALGEBRAIC IDENTITIES**

**WORKSHEET – 1,2,3**

- Find the following by using suitable identity :-
  - $(3x + \frac{1}{3x})^2$
  - $(\frac{2a}{3b} - \frac{2b}{3a})^2$
  - $(a^2b - bc^2)^2$
  - $(x + \frac{1}{x^2})(x^3 - \frac{1}{x^3})$
  - $(x^4 + \frac{2}{x})^2 - (x^4 - \frac{2}{x})^2$
- Evaluate the following by using suitable identity :-
  - $(703)^2$
  - $(999)^2$
  - $9.8 \times 10.2$
  - $\frac{58^2 - 42^2}{16}$
  - $\frac{198 \times 198 - 102 \times 102}{96}$

**WORKSHEETS - 4,5**

- Find the following by using suitable identity :-
  - $(\sqrt{3x} + \sqrt{2y} - 5)^2$
  - $(-2a - b + 5c)^2$
  - $(3x^2 - 4xy)(3x^2 + 3xy)$
  - $(p^2 - 16)(p^2 - \frac{1}{4})$
- Evaluate the following by using suitable identity :-
  - $102 \times 98$
  - $34 \times 36$
  - $103 \times 96$
  - $78 \times 83$

**WORKSHEET – 6,7**

- Factorize the following :-
  - $16x^4 - 81$
  - $y^2 + 5y - 36$
  - $a^{12}x^4 - a^4x^{12}$
  - $(a+7)(a-10) + 16$
  - $4x^2 - 4xy + y^2 - 9z^2$
  - $x^2 + 9y^2 - 6xy - 25a^2$
  - $x^2 + 12x - 45$
  - $p^2 - 3pq + 2q^2$
  - $a^2 + b^2/4 + c^2/9 + ab + bc/3 + 2ca/3$

**BRAIN TEASERS**

- If  $x - \frac{1}{x} = 5$ , find the value of  $x^2 + \frac{1}{x^2}$
- If  $a + b + c = 12$  and  $a^2 + b^2 + c^2 = 66$ , find the value of  $ab + bc + ca$
- If  $3x + 4y = 7$  and  $xy = 2$ , then find the value of  $9x^2 - 16y^2$  and value of  $9x^2 + 16y^2$ .
- Simplify the following :-
  - $(7x + 4y)^2 - (7x - 5y + 3)^2$
  - $(3a + 4b + 4c)^2 - (3a - 4b - 4c)^2$
  - $(a^2 - b^2)(a^2 + b^2) - (a^2 - b^2)^2$
- Factorize
  - $25(3x+y)^2 - 40(3x+y)(x-2y) + 16(x-2y)^2$
  - $p^8 - \frac{1}{p^8}$
  - $(121x^2 - 66xy + 9y^2) - 25a^2$
- Simplify  $(a-2b)(a+2b)(a^2+4b^2)(a^4+16b^4)$
- If  $x^2 - ax + 36 = (x-4)(x-9)$  then find the value of  $a$
- If  $(x-3)(x+b) = x^2 - 7x + 12$  then find the value of  $b$
- If  $x + 1/x = 11$  then find the value of  $x - 1/x$
- Find the value of  $x$ , if
  - $25x = (536)^2 - (136)^2$
  - $4x = (98)^2 - (88)^2$
- Evaluate by using suitable identity
  - $\frac{2.3 \times 2.3 + 2 \times 2.3 \times 4.7 + 4.7 \times 4.7}{(2.3)^2 - (4.7)^2}$
  - $12.4 \times 11.6 - 95 \times 105$



**.Assignment Sheet**  
**Class VIII**  
**Topic Introduction To Graph**

1. If (a,b) lies on the x – axis then what is the value of b.
2. If (a, b) lie on the y – axis than what Is the value of a.
3. Write abscissa of the point(-1,2)
4. Write ordinate of the point (3,4)
5. Write the distance of the point (3, 5) from x – axis.
6. Write the distance of the point (2, 3) from y – axis.
7. Write the coordinate of the origin.
8. Plot the point (2, 1) , (5, 5),(5,1) and (2, 4) on graph. Write the name of the figure obtained. Also find the area of the figure so obtained.
9. Plot (3, 3), (5, 5), (7, 7) Join these points in pairs. Do they lie on the line passing through origin. How many more points you can find which lie on this line.
10. The perimeter of an equilateral triangle and its side are connected by the relation perimeter = 4 X side.Draw the graph for this relation.
11. The quantity of petrol filled in a car and the cost of petrol are given in the following table.

<b>Litres of petrol filled</b>	10	12	14	16	18
<b>Cost of petrol (in Rs)</b>	600	720	840	930	1080

Draw the graph representing the above data. Based on the graph answer the following questions:-

1. Find the cost of 13 litres of petrol.
2. How much petrol can be purchased for Rs. 1200?
12. The following tables shows the number of patients discharged from hospital with HIV diagnosis in different years.

<b>Years</b>	2002	2003	2004	2005	2006
<b>No of Patients</b>	150	170	95	225	230

Draw the graph representing the above data.

13. The following table gives the information regarding the number of persons employed to a piece of work and time taken to complete the work.

<b>No of persons</b>	2	4	6	8	12
<b>Time taken (in days)</b>	12	6	4	3	2

Draw the graph representing the above data.

14. The runs scored by two teams A and B in 10 overs are given below:-

<b>Overs</b>	1	2	3	4	5	6	7	8	9	10
<b>Team A</b>	2	1	8	9	4	5	8	10	6	2
<b>Team B</b>	5	6	2	10	5	6	4	4	8	10

Draw the graph representing the above data.

NOTE:-Revise the covered Syllabus of all the subjects for the preparation of Pre-Board.