

Summer Holiday Homework 2017-18

CLASS – VII A & B

SL. No.	SUBJECT	WORK ASSIGNED	HOD's Signature
1	English	1. Oxford Reading Circle - Read the chapter "A Little Princess" and prepare a summary 2. Oxford Modern English - Read the chapters "January Night" and 'The Story of an Invitation ' and answer the questions at the back of the text. 3. Prepare a chart on the life and works of Munshi Premchand 4. Write a paragraph about a person you know. (Make it interesting.) 5. Write a paragraph giving instructions: for example you can write about How to: Play a musical instrument & Plan a surprise party	
2.	Hindi	1 परियोजना– इंटरनेट की दुनिया ने किस प्रकार फेरीवालों के व्यवसाय को प्रभावित किया है? 2 कार्य–प्रपत्र – व्याकरण से अपनी कॉपी में ही कार्य करें तथा फेरीवालों और नेट पर मिलनेवाले सामानों के चित्र लगा सकते हैं। कार्य–प्रपत्र को भी अपनी कॉपी में लगाएँ।	
3.	Math	Chapter-3:07- Percentage change (starting from page-47) all questions. Chapter-3:08- Further applications of percentage (starting from page-50) all questions. Project- Application of percentage in our daily life.	
4.	Physics	Prepare a PPT on 'Matter'. Make a 'Model of a car braking system'. Also state the utility of Air brakes and hydraulic brakes on a piece of chart paper.	
5.	Chemistry	Solve the worksheet given.	
6.	Biology	Prepare a project on a chart paper on the topic of- FOOD AND ADVERTISEMENT	
7.	Civics	1. Prepare a chart on any one contemporary dictator. Frame a suitable heading for eg. "Ruling with an iron fist". Use pictures and information to depict how they misuse power. [Hint: Kim Jong Un of North Korea, Alexander Lukashenko of Belarus, Bashar-al Assad of Syria, Robert Mugabe of Zimbabwe, Islam Karimov of Uzbekistan] 2. Write an article (approx. 2 pages of A4 size) for the Social Science Magazine on any one of the following topics: a) Effects of social networking sites on students' life. b) Life in a hostel (my second home) c) Advertisement determines my shopping list d) How footwear evolved? or e) Poems on friendship, Anti-corruption, Save environment	
8.	IT	Prepare a report on Troubleshooting. Also explain few common computer troubles that we face in daily life along with their reasons and solutions.	
9.	Spanish	Paste and write about the Mexico's Día de Muertos, Cinco de Mayo, Argentina's Folklore National Festival in Cosquín and Spain Tomato festival on a chart paper.	

SUMMER HOLIDAY HOMEWORK – 2017-18

CLASS: VII AB
SUB. : CHEMISTRY

CHAPTER- ENGINES AND BURNING FUEL

A. Fill in the blanks:

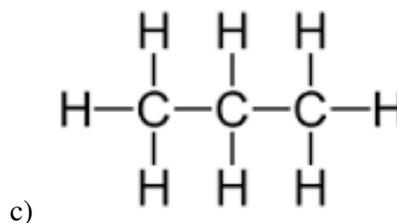
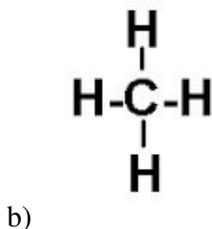
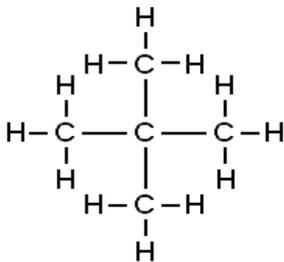
1. _____ is an example of solid fossil fuel.
2. Hydrocarbons are compounds containing _____ and _____ only.
3. The engine in which the fuel burns outside the engine is called _____.
4. The colour of dry cobalt chloride paper is _____.
5. The products formed when hydrocarbon undergoes complete combustion are _____ and _____.
6. In a word equation the products are written on _____ of arrow pointing from reactant to product.
7. When a fuel burns energy can be transferred to the surrounding in the form of _____ and _____.
8. When carbon dioxide is bubbled through _____ it turns the solution milky.

B. Complete the following word equation:

1. Carbon + _____ → Carbon dioxide
2. _____ + Oxygen → Water
3. Hydrocarbon + _____ → _____ + Water

C. Answer the following questions:

1. What is a fuel cell?
2. Write down the equation for the reaction which takes place in a hydrogen fuel cell.
3. Write the formula of following hydrocarbon from their structure:



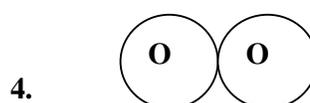
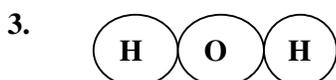
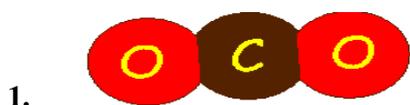
4. Write down the word equation when a hydrocarbon undergoes combustion
5. Describe the chemical test to identify carbon dioxide and water?

CHAPTER- OXIDATION

A) Fill in the blanks:

1. A reaction in which a substance combines with oxygen is called _____ reaction.
2. _____ is an example of combustion reaction.
3. A compound of a metal or non- metal with oxygen is called _____.
4. _____ and _____ are examples of non- metal.
5. The law which states that mass can never be gained or lost in a chemical reaction is called _____.

B) Identify the number of atoms present in the following molecule of element/ compound .Also write down the atoms of each kind:



C) In the following reactions shown below calculate number of atoms of each kind in the reactant and product and thus show that it is in agreement with law of conservation of mass:

1. $C + O_2 \longrightarrow CO_2$
2. $2H_2 + O_2 \longrightarrow 2H_2O$
3. $CH_4 + 2O_2 \longrightarrow CO_2 + 2H_2O$

D Answer the following question:

1. When 3g of carbon is burnt in oxygen 11g of carbon dioxide is formed. What is the mass of oxygen that has reacted with carbon.
2. Write down the word equation:
 - a) When magnesium reacts with oxygen
 - b) Sodium reacts with oxygen
 - c) Aluminium reacts with oxygen
3. When we heat zinc in air the mass increases. Explain
4. 3g of zinc on reaction with 0.7 g of oxygen gives zinc oxide. Calculate the mass of zinc oxide formed.
5. In a chemical reaction the mass decreases after the reaction. What does it indicate about the nature of the product formed.

6. Match the following:

- a) Hydrogen
- b) Carbon
- c) Water
- d) Carbon dioxide
- e) Oxygen
- i) Symbol-O
- ii) Symbol-H
- iii) CO₂
- iv) Symbol - C
- v) H₂O

7. Write true and false for the following:

- a) Combustion is an example of oxidation reaction.
- b) When magnesium burns in air to give magnesium oxide it combine with nitrogen present in air.
- c) Non- metals are shiny in nature.
- d) The chemical name of water is hydrogen oxide.
- e) Hydrogen is an example of metal.

PROJECT-WORK

CLASS 7 SEC- A Choose any one class of fire among following (**CLASS A, B,C,D and K**)and write about it on one- fourth chart paper. Follow the following format

CLASS OF FIRE	MATERIAL WHICH CAUSE FIRE	PICTURE SYMBOL	TYPE OF FIRE EXTINGUISHER USED TO EXTINGUISH THE FIRE

CLASS 7 SEC-B Choose any one kind of fire extinguisher from the following and on one- fourth chart paper write about it. Follow the format given below:

1. Carbon dioxide fire extinguisher
2. Dry powder fire extinguisher
3. Foam fire extinguisher
4. Water fire extinguisher

Type of fire extinguisher	Colour of the fire- extinguisher	For use on which type of fire	Not to be used in which type of fire