<u>FLORENCE INTERNATIONAL SCHOOL</u> <u>Summer Vacation Assignment (2020-21)</u> <u>CLASS-IX</u>



The following tips would help you spend these holidays in a learning way.

- INCULCATE HEALTHY HABITS i.e. getting early in the morning, brushing teeth twice a day, washing hands, drinking lots of water and eating lots of fruits. Practice yoga and simple breathing exercises to stay fit and healthy.
- SUPPORT MORAL VALUES Wishing everyone (Good Morning) helping parents and grandparents in their regular work, saying prayer in the morning and night etc. Helping needy by giving away spare toys and clothes.
- NURTURE THE NATURE Plant a sapling and taking care of it, feeding the birds with water and seeds. Keep your surrounding clean and avoid using plastic poly bags.
- DEVELOP LEARNING SKILLS Converse in English at home.Listen good music and read Newspaper everyday.
- PERSONALITY DEVELOPMENT Watch less television, save food and water, bath daily and wear neat and clean clothes, don't bite your nails, use hanky/napkin to wipe nose, sweat and hands, don't spit around and speak politely.
- ♦ SKILL DEVELOPMENT –

* <u>Self-Help Skill :</u>

Wash your own cloths# Keep things in proper places.# Arrange the books and toys back# Kneading of dough

- # Clean your workspace. # Water the plants.
- # Laying the table for lunch / dinner
- # Try to make chapattis

ACADEMIC LEARNING

<u>ENGLISH</u>	 Worksheet 1 - Kathak Worksheet 2 - Rice is Nice Worksheet 3- Cardamom Worksheet 4- Laughing Owl- Extinct forever Worksheet 5- The Beautiful, Powerful Jaguar to be done in book Chapter 27- worksheet 51 and 52 to be done in book.
<u>HINDI</u>	 हिंदी व्याकरण पृष्ठ संख्या : 62, 63, 71, 72, 73, 86, 87, 98, 99, 112, 113, 114 परियोजना कार्य अरुणाचल प्रदेश में बनने वाले वेद और बास के सामानों की सूची बनाइए एवं उनके चित्र चिपकाएँ।
MATHS	 Complete all the Exercises of Chapter 1 and 2
<u>SCIENCE</u>	 Chapter-5 Do Page no.67(Q1 to Q10) Chapter-15 Do Page no.214(Q1 to Q9)
<u>S.St</u>	 The story of village Palampur India -size and location French revolution
COMPUTER	 CHART/Model on IPO Cycle Diagram. OR Models /charts of application areas of computer Ex- Traffic lights - Science & research, commerce, education, medicine, banking etc. Write an article on- Importance of network connectivity and computer education in North-east India (Arunachal Pradesh/Meghalaya) in your computer notebook.(minimum 400 words)





Interconversion of the three states of matter

Q11.Explain why?

i. A gas fill a vessel completely.

ii. Camphor disappears without leaving any residue.

iii. The temperature does not rise during the process of melting and boiling, through heat energy is constantly supplied.

iv. Water stored in an earthen vessel becomes cool.

v. An iron almirah is a solid at room temperature.

[DO IN LAB MANUAL BOOK]

Activity Take a 100 mL beaker. Fill half the beaker with water and mark the level of water. Dissolve some salt/ sugar with the help of a glass rod.

Observe any change in water level.

What do you think has happened to the salt?

Where does it disappear?

Does the level of water change?

In order to answer these questions we need to use the idea that matter is made up of particles. What was there in the spoon, salt or sugar, has now spread throughout water. This is illustrated in Fig. 1.1.



magnified millions of times

Fig. 1.1: When we dissolve salt in water, the particles of salt get into the spaces between particles of water.

Activity

Take two glasses filled with water.

Put a drop of blue or red ink slowly and carefully along the sides of the first beaker and honey in the same way in the second beaker.

Leave them undisturbed in your house.

Record your observations. What do you observe immediately after adding the ink drop?

What do you observe immediately after adding a drop of honey?

How many hours or days does it take for the colour of ink to spread evenly throughout the water?

What happens as time passes?

What does this suggest about the particles of solid and liquid?

Does the rate of mixing change with temperature? Why and how?

MATHS

Do the questions given below:

Q.1 In which quadrants do the given points lie?

(i) (4, -2) (ii) (-3, 7) (iii) (-1, -2) (iv) (3, 6) Q.2 Is P (3, 2) & Q(2, 3) represent the same point?

Q.2 In which quadrant points P(3,0), Q(6,0), R (-7.0), S (0,-6), lie.

Q.3 The points (other than the origin) for which the abscissa is equal to the ordinate lie in

(a) Quadrant I only (b) Quadrant I and II (c) Quadrant I & III (d) Quadrant II only.

Q.5. The perpendicular distance of the point P(4,3) from the y axis is

(a) 3 Units (b) 4 Units (c) 5 Units (d) 7 Units Q.6 The area of triangle OAB with 0(0,0), A(4,0) & B(0,6) is

(a) 8 sq. unit (b) 12 sq. units (c) 16 sq. units (d) 24 sq. units

Q.6. Factorize the following by splitting the middle term:

(a) $3x^2 + 11x+30$ (b) $22x^2+9x+52$ (c) $4x^2 - 13x + 10$

Q.7 Factorize the following by Factor theorem:

(a) $x^3 + 9x^2 + 23x + 15$ (b) $x^3 + 6x^2 + 11x + 6$

Q.8 Factorize the following by using a suitable identity

(a) $4x^{2} + 12xy + 9y^{2}(b) 2a^{5} - 54 a^{2}(c) x^{5} - x (d) x^{6} - y^{6}(f) (a-b)^{3} + (b-c)^{3} + (c-a)^{3}(f) x^{8} - y^{8}(g) 27x^{3} - 135x^{2} + 225x - 125$

Q.9 The polynomials $kx^3 + 3x^2 - 3$ and $2x^3 - 5x + k$ leave the same remainder when divided by (x-4). Find k.

Q10. Insert four rational numbers between 5/6 and 11/8 and locate on the number line.

Q.11. Visualize 6.563 on the number line using successive magnification.

Activity 1: Make a model on any one of the following:

1. Identities $(a + b)^3$, $(a - b)^3$ etc.

2. Representation of irrational numbers on the number line.

3. Coordinate Geometry

Activity 2 : Make chart of Real numbers its types and properties on A3 sheet. Activity 3: The textile patterns found among the tribes of Arunachal Pradesh such as Adi, Mishmi and Apatani are invariably of geometric pattern.Make a poster on A3 sheet based on the above pattern and also explain it.



• Learn square root and cube root table from 2 to 25.



अ	भ्यास प्रश्न
(Practi	ce Questions)
निम्नलिखित शब्दों का वर्ण विच्छेद की	जेए—
1. चट्टानें	21. व्यर्थ —
 चिंतित 	22. कार्य
3. दृश्यता	23. कारवाँ —
4. आशंका	24. नारियल
5. महँगाई	25. सॉंप —
6. जलाशय	26. विस्तृत —
7. धुरंधर	27. शंकु
8. प्रसाधन	28. विज्ञापित
9. জিক্স	29. संशोधन —
10. ক্সিহিয়া	30. कंगन —
11. कब्र	31. রিয়ূল —
12. प्रस्ताव	32. कृष्ण —
13. संग्राम	33. आलोक —
14. সয়িদ	34. मंगल —
15. वर्ण	35. 국내
16. मार्ग	36. व्यंजित —
17. 班布	37. हीनभावना
18. निर्मल	38. संचालन
19. अर्थात	39. जपसाध्य
20. सर्प	40. देवत्व
निम्नलिखित के शब्द बनाइए-	
 इ + ऑ + क् + ट् + अ + र् + अ 	
 क् + ऑ + फ़् + ई 	
 म् + ऑ + ल् + इ + म् + अ 	
4. इ. + ऑ + ल् + अ	

- 7. ऑ + क् + स् + अ + फ् + ओ + र् + ड् + अ
- 8. ऑ + क् + स् + ई + ज् + अ + न् + अ
- 9. क् + ऑ + र् + ब् + अ + न् + अ

कार्य पत्रिका 2

<u>सन्धि विच्छेद कीजिए –</u>	<u>ğ</u>
१. मतानुसार	२. वार्तालाप
३. परमार्थ	४. अत्याचार
५. भावार्थ	ৎ. গ্নিপ্তালয
७. पीताम्बर	८. मुनीन्द्र
ৎ. अन्यार्थ	१०. गिरीन्द्र
११. चरणामृत	१२. खीन्द्र
१३. देहान्त	१४. वोगीश्वर
१५. अधिकांश	१६. विद्यूदय
१७. हिमालय	१८. सरवूर्मि
१९. छात्रावास	२०. न्यायालय
२१. एकार्थक	२२. देवालय
२३. पुस्तकालय	२४. परमात्मा
२५. वाचनालय	२६. जलाशव
२७. औषधालय	२७. सचिवालय
२९. धर्मात्मा	३०. शिवालय
३१. શિક્ષાર્થી	३२. विद्यार्थी

* Please note that all the H.W has to be done neatly.Grades/ Marks would be awarded for the same in all the subjects. REVISE ALL THE WORK DONE IN THE CLASS