BAL BHARATI
PUBLIC SCHOOL
Sector-21, Noida, G.B. Nagar


WINTER HOLIDAY HOMEWORK

GRADE - 4

SESSION: 2021-22

TOPIC: GALACTICA

GALACTIC ORIENTATION MAP

The capacity to learn is a gift, the ability to learn is a skill, the willingness to learn is a choice

Dear Parents

Warm greetings!

The winter holidays are around the corner. We are again resuming normal activities after the pandemic and life will soon be back on track. So, keeping that in mind we bring for our students, various fun-filled worksheets.

Following the theme of our Holiday Homework "GALACTICA", we have designed a series of worksheets integrating with English, Hindi, Mathematics, Science, SST and ICT. The worksheets aim to provide students with opportunities to brainstorm and engage in critical thinking.

Please Note:

a. All assignments to be done in your respective notebooks and use A4 sheet wherever required. Upload your work in MS Teams.
b. These worksheets will be assessed in Round IV

Students have to upload their work according to the below mentioned dates:

S.No.	Subject	Date
1	ENGLISH	12 January 2022
2	HINDI	14 January 2022
3	MATHEMATICS	17 January 2022
4	SCIENCE	19 January 2022
5	SOCIAL STUDIES	21 January 2022
6	ICT & AI	24 January 2022

WISH YOU AN ELATED HOLIDAY TIME AND A FANTASTIC YEAR AHEAD!

We wish you warmth, love, and good health in the upcoming year!

INSTRUCTIONS:

Read the story carefully and solve the exercises given below based on the story:

Mangalyaan: A Journey to Mars - StoryWeaver   (Galactica)

PICTIONARY **(Vocabulary Building)**	Make a Pictionary (MS WORD) of following words (paste picture, write the meaning and make a sentence of the particular word.) o ASTEROID o ASTRONAUT o COMET o CONSTELLATION o METEOR o MILKY WAY o ORBIT o PLANET o SOLAR SYSTEM o 10. STAR

- Write a letter to alien 'Zingo' you met in Mars. Invite the alien to your New Year celebration.
- Write a Diary Entry about your travel to Mars. (practice of Past Tense)
- 'Should Humanity Settle In Mars'- Give reasons to support your answer.

Let´s describe our solar system

Recapitulation of Grammar concepts:

1. Venus is _____ Mercury and Earth . (use preposition)

2. Saturn comes _____   Uranus. (use preposition)

3. Neptune comes _____ Uranus. (use preposition)

4. Jupiter is _____ Mars . (use preposition)

5. Pluto is the _____ planet from the sun. (far/ Degrees of comparison.

6. Mercury is the _____ planet to the sun. (near/ Degrees of Comparison)

Read the following passage. There is one word missing in each linewhere a / has been marked. Write the correct word in the space provided,

Man is basically / animal. The instinct of fighting is inborn in him. Thirst for power / glory is a part of his personality. / times, he behaves like a savage, irrational beast.

हिंदी

प्रश्न 1– वर्ग में लिखे संज्ञा शब्दों से कविता को पूर्ण कीजिए –

भाग	सागर	ई-मेल
कंप्यूटर	यंत्र	अभिमान
अंतरिक्ष	बटन	दोस्तों
विज्ञान	मौसम	जीवन

जब से आया है ...., ...हो गया है आसान ।

क्या गुणा,क्या .... , कर देता मुश्किल आसान ।

यह ....है अनोखा , नवयुग का है ....

सारे प्रश्नों को कर देता हल, सूचना सारी देता झटपट ।

.............दबाते चिट्ठी पहुँचाता , दूर ....का हाल बताता ।

.............का रूप बताता, ...से समाचार लाता ।

...........की गहराई नापता ,तरह-तरह के खेल दिखाता।

...........पर चैट कराता , ज्ञान के सारे राज़ बताता ।

.......................का अनोखा आविष्कार, जीवन इसने दिया सँवार

प्रश्न 2– निम्नलिखित शब्दों के पर्यायवाची शब्द वर्ग-पहेली से छाँटकर लिखिए –

नृ	प	न	भ
वि	द्	आ	ग
पि	म	वा	वा
न	व	स	न

क) राजा ....

ख) कमल ....

ग) जंगल ....

घ) अंबर................................

ङ) देव ....

च) कपड़ा ....

छ) गृह ....

प्रश्न 3- बूझो तो जानें

क) नीले-नीले आसमान में ,कल पंछी उड़ता जाए ,
लेकिन मेरे प्यारे बच्चों यह धरती की प्यास बुझाए ।

उत्तर - ....

ख) पल-पल मेरा बड़ा कीमती, मानों तुम मेरी बात ,
जो न मेरा ध्यान रखे, जीवन में वो खाए मात।

उत्तर - ....

प्रश्न 4- अपठित गद्यांश

हिमालय की गोद में बस जम्बू अपने प्राकृतिक सौन्दर्य के लिए दुनियाँ भर में एक खास मुकाम रखता है। जम्बू-कश्मीर मूल रूप से तीन क्षेत्रों लद्दाख,हिमांचल प्रदेश और पंजाब राज्य की सीमाओं से जुड़ा हुआ है। जम्बू और कश्मीर एक लोकप्रिय पर्यटक आकर्षण है जिससे अपनी छुट्टियाँ बिताने के लिए पर्यटक साल में कभी भी यहाँ आ सकते हैं । यह जगह प्रकृति प्रेमियों के अलावा साहसिक गतिविधियों में लिप्त उत्साही लोगों के दिल में एक खास जगह रखती है । मुगल सम्राट जहाँगीर का मानना था की की यदि धरती में कहीं स्वर्ग है तो यहीं है । कश्मीर दुनिया की सबसे खूबसूरत जगहों में से एक है साथ ही यहाँ के शानदार मंदिर,पर्वत,ग्लेशियर,ऑउए उद्यान इस जगह की भव्यता पर चार चाँद लगते हैं ।

सही विकल्प छाँटिए –
1- हिमालय की गोद में कौन-सा प्रदेश बसा है ?
क) लद्दाख   ख) हिमांचल प्रदेश   ग) जम्बू कश्मीर   घ) पंजाब

2 – कश्मीर को दुनियाँ की सबसे खूबसूरत जगहों में से एक क्यों माना जाता है ?

उत्तर –

_____

_____

_____

_____

3 –विलोम लिखिए –

क) स्वर्ग – _____

ख) खूबसूरत – _____

4 – दो–दो पर्यायवाची लिखिए –

क) दुनियाँ _____   _____

ख) पर्वत _____   _____

5 – वाक्य बनाइए –

क) शानदार –

ख) पर्यटक –

6– चार चाँद लगाना मुहावरे का अर्थ बताइए –

उत्तर_____

_____

Solve the following questions in Mathematics notebook and upload the pdf in Teams.

Q1. What is the rule in the given pattern:

       1, 2, 4, 8, ...
   a. Consecutive multiples of 2 are written.
   b. The multiplication table of 2 written.
   c. The pervious term is multiplied by 2 to get the next term.
   d. Adding 2 to the pervious term to get the next term.
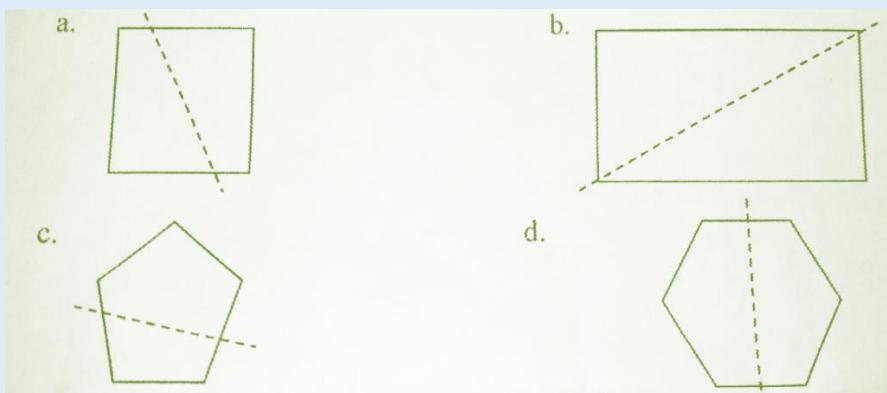
Q2. 3/4 means:
   a.   Three parts out of total four parts of whole.
   b.   Three equal parts out of four parts of a whole.
   c.   Three parts out of four equal parts of a whole.
   d.   Three has to be divided into four equal parts.

Q3. An ordinary bucket used in the house may have a capacity of about
   a. 18ml   b. 18l   c. 8ml   d. 18l
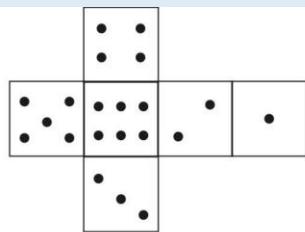
Q4. In which of the following figure is the dotted line a line of symmetry?
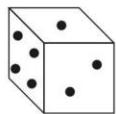
Q5. The 8th term of 1, 2, 3, 5, 8, ... would be _____.

How did you find out?

_____

_____
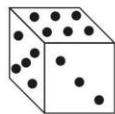
Q6. The given cut-out can be folded to make a dice. Also, make it using a paper and attach the picture of the same.
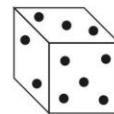
Which of the following cubes will not be obtained by folding the above cutout?
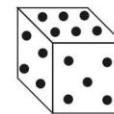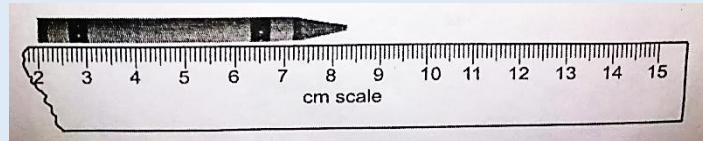
(a)   (b)   (c)   (d)

Q7. The length of the crayon_____.

Q8. A shopkeeper used a piece of stone along with a 500gm and 200gm to weigh potatoes which were 1 kg 200gm in weight. What is the weight of the stone?
(Show the Working)
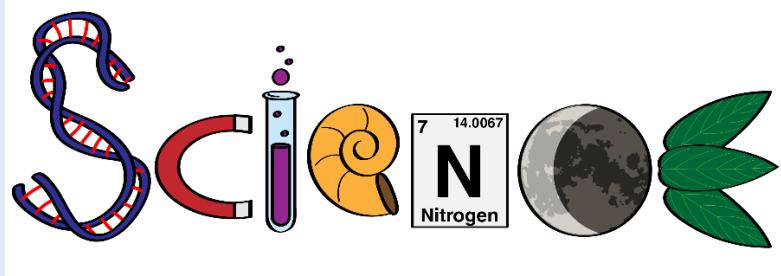
Activity: Every planet has it's own Natural Satellite. Just like Earth has moon, other planets have their moons and in various quantity.
Explore the number of moons following planets have and represent the data using a pictograph.

- Venus
- Mars
- Uranus
- Neptune

Q1. Which two planets have rings in the solar system?
   a.   Mars and Neptune
   b.   Saturn and Neptune
   c.   Jupiter and Mars
   d.   Earth and Uranus

Q2. Solve the riddle: I am an inner planet and the hottest planet of the solar system. I am totally covered with clouds and so people also called me "Veiled planet". I am also known by the names of morning star or evening star. Who am I?
   a. Venus
   b. Mars
   c. Jupiter
   d. Saturn

Q3. **Direction:** Read the passage below and answer the following questions? Amit went to a science museum with his elder brother who is an astronaut. From the museum, he saw the sky using a telescope and was able to see a big bright object. His brother told him that this bright object in the sky is a planet that is very unique as it has rings and the greatest number of moons. Moving further he also saw group of stars forming a shape of the bear. Returning home he was very amused and full of queries in his mind. Can you answer some of his queries? What was the name of the bright object that his brother told was a planet?
   a. Neptune
   b. Jupiter
   c. Uranus
   d. Pluto

Q4. Direction: Study the grid below and mark the names of the planets.

R	J	Y	N	O	O	M	F	T	M
G	J	U	P	I	T	E	R	G	I
T	K	R	J	Q	W	T	W	J	L
H	M	A	N	L	R	E	Z	B	K
J	H	N	R	R	H	O	A	D	Y
L	N	U	U	G	T	R	Q	R	W
U	A	S	T	E	R	O	I	D	A
N	G	H	A	B	A	A	S	F	Y
B	N	U	S	J	E	V	F	G	T
D	D	F	J	T	D	W	Q	E	Y

Q5. Which of the following is true?

Statement A: Sun is the hottest planet in the solar system.

Statement B: Sun is revolving around Earth in an elliptical orbit.

    a) Only A is true.

    b) Only B is true.

    c) Both A and B are true.

    d) No one of the statement is true.

Q6. Solve the riddle:

No matter how hard you look, you'll never find me.

Unless you have a telescope to help you see.

I was once called a planet, but not anymore.

Now I'm just a "Dwarf Planet," but too important to ignore.

 Which planet am I?

Q7. .Amar was preparing for his exams. He was studying hard and had just finished the last chapter 'Solar System'. He wanted to know 'Why Pluto is called dwarf planet.' As his elder brother what will you do to help Amar understand the concept clearly?

Q8. There are billions of stars in the sky. When seen closely, these stars together form a pattern or a shape. There are several such patterns that can be seen in the sky at night. Our zodiac signs are also related to them. What are such patterns of stars in the sky called as?

    a. Meteors   b. Planets   c. Constellation   d. Asteroids

Q9. Identify and name the following Constellations.

Q10. Observe the different phases of moon. Draw them in your notebook and explain the reason for different phases. https://youtu.be/7t099KIWVVS

- Mars is called a 'RED PLANET'. Which mineral could be the cause for its redness.

Topic: <u>OUR RICH HERITAGE</u>

India has a rich tradition of art and culture: languages, dresses, dance, music, architecture, paintings and festivals.

A   B   C

Name the type of dances being performed in the picture:
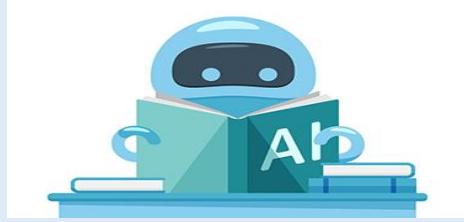
A:_____

B:_____

C: _____

Write the difference between Classical Dance and Folk Dance:

Classical Dance	Folk Dance

Q1) Using Auto Draw online AI application draw any one constellation and paste screenshot here. Link: https://www.autodraw.com/

Q2) How does a Google Assistant Work? Draw Diagram to explain.

Q3) AI gives speech capability? Explain in 50 words with example.

_____
_____
_____
_____
_____

Computational Thinking

Q4) What will be the next pattern??

Identifying Number Pattern

Identify the number pattern and fill in the missing numbers.

1)	2	3	5	8	12					

2)	5	7	11	17	25					

3)	48	47	45	42	38					

4)	101	90	80	71	63					

5)	3	7	12	18	25					

6)	79	77	74	70	65					

7)	8	9	11	14	18					

8)	65	62	58	53	47					

9)	9	13	18	24	31					

10)	13	14	16	19	23					