

1. MATHEMATICS

RATIOS AND PROPORTIONS

RECIPE PROJECT

You will apply ratios and proportions to help you convert a recipe to serve more people.

You have found your favourite recipe for a dessert or appetizer and want to bring it to the class for food fest. The problem is your recipe doesn't serve enough people. Use proportions to increase the recipe to serve all the people in class including your teacher. Make 1 serving per person.

For this project you will need to:

1. Choose one recipe from the internet, cookbook or home.
2. The recipe must have at least 8 ingredients, and must have the number of portions it makes.

(must serve greater than 4 people and less than 10).

3. Use proportions to increase the recipe to serve the number of people in your class, including your teacher (1 serving per person).

4. Create a brochure that includes the following: (Use attached table to assist you)

- Original Recipe
- Ratio for one serving, for example: if the recipe uses 1 cup of sugar, and the recipe serves 8, the ratio for one serving equals $\frac{1}{8}$ c. sugar (THINK UNIT RATE!)
- Proportion used to increase the recipe to a number of servings to give one portion to each person in the class including the teacher.

For example, if there were 40 people in class than $\frac{1}{8}$ servings = $\frac{x}{40}$ servings

- Show ALL work to solve proportion.
- Round your measurements to the nearest half (i.e. 3.222 teaspoons, rounds to 3 teaspoons, 3.666 teaspoons rounds to $3\frac{1}{2}$ teaspoons).
- Scaled Recipe– Ingredient and new amount needed to give one serving per person in class.
- Explain the math you used to solve this problem. Your strategies

- Directions how to make the recipe.
- Be creative! Use drawings, pictures, etc. to demonstrate your knowledge of ratios and proportions.

Table - Proportions to Increase a Recipe

Original Recipe serves: _____ New Recipe serves (# of people in class): _____

Original Recipe Ingredients	Ratio for one serving	Proportion used to increase recipe to serve classmates	Work to solve proportion	Scaled Recipe-Amount needed to feed class
1 Cup Sugar (serves 8)	1/8	$\frac{1}{8} = \frac{x}{40}$	X =5	5 cups of sugar

Write About Your Strategies:

Using complete sentences, describe the math you used to solve this problem

2.HINDI

1.लॉकडाउन के दौरान माँ के हाथअँ बने स्वादिष्ट व्यंजनअँ का अनोखा वर्णन अपने शब्दअँ में लिखें |

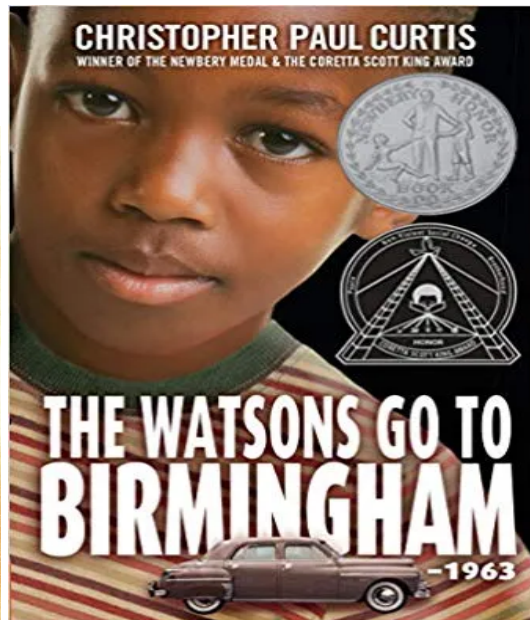
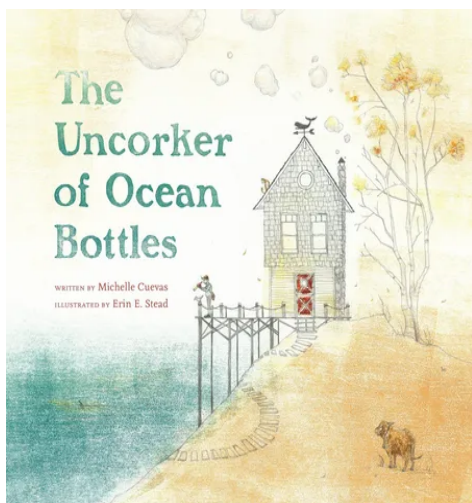
2 . चित्र वर्णन -किसी चित्र को गौर से देखिए और उसपर एक अनुच्छेद लिखिए|

3 .किसी हिंदी कहानी पढ़कर उसकी समीक्षा लिखिए

4 .डायरी लेखन -किसी दस दिनअँ के अनुभवअँ का डायरी नोट्स तैयार कीजिए|

3.ENGLISH

- ❖ Are you a **music / band** lover ? Here is an innovative project for you...make a list of five contemporary musicians of your choice and say why you like them and what makes them special for you?
- ❖ Bring out your latent skills in the form of a video presentation...
Are you someone other than the ordinary...so tell us what you are? let's know your hobbies through a short 3 minutes presentation.
Do you enjoy writing captions for photographs? **# let me know**
Post your favourite pic and say when & where you shot it and a caption for it .
- ❖ Books to read:.



IN SHORT 1. This is a lovely, soft picture book about a man whose job it is to retrieve messages in bottles washed ashore by the sea and make sure they are delivered. The only problem is, the Uncorker longs for a letter to be addressed to him. One day, sure enough, a party invitation is tossed in by the waves.

2. The Watson family travels to Birmingham in the summer of 1963, hoping that Grandma can straighten out 13-year-old Byron, who is something of a delinquent. Their visit coincides with the Birmingham church bombing, so this is historical fiction set against the backdrop of an engaging family with carefully rendered characters.

4.SCIENCE

Collect information on the uses of electromagnet in daily life. (any five)

5.SOCIAL SCIENCE

Picture album on the Mughal monuments.

or

A case study on any one natural or man made disaster.

6.MALAYALAM

1. നിങ്ങൾ കണ്ട ഏതെങ്കിലും കലാരൂപത്തെക്കുറിച്ച് ഒരു തയ്യാറാക്കുക
2. കഴിഞ്ഞ ഒരു വർഷം നിങ്ങൾ വീട്ടിലിരുന്ന് പഠിച്ചപ്പോൾ നിങ്ങൾക്കുണ്ടായ ഏതെങ്കിലും രണ്ട് അനുഭവങ്ങൾ കോർത്തിണക്കി, സംഭാഷണത്തിന് പ്രാധാന്യം നൽകിക്കൊണ്ട് ഒരു കാർട്ടൂൺ തയ്യാറാക്കുക

7.IT/COMPUTER Sc.

Students are free to choose anyone (at least one) activity from the list given below:

* Photo Editing - Capture a photo from your premises. Edit the photograph by adding a suitable Title. Apply features like blending, onion skin etc.

Software : GIMP

Suggested web resource : <https://www.gimp.org/tutorials/#photo-editing>

* Music mixing

Blend any 3 songs (one Western song, one Bollywood song and one Indian Classical song)using any software. Maximum playing time should be 4 mins.

* Design a flyer for a product promotion, maximum of two pages. Be imaginative and creative to choose the Name of the product and in designing the brochure.

Software : Any online graphic design platform (Adobe Spark, Canva, Pixlr etc.)

* BASIC Program :

Students can design a graphic/ game using BASIC.

* Scratch Program :

Develop an animated story with a good moral value.

All submissions to be made in Google classroom.

8. Reading

- Read any two books and write a review(one from English and one from Hindi or Malayalam)

Malayalam

- 1 Janmadinam by Vaikom Muhammad Basheer
2. Himavante Mukalthattil by Rajan Kakkanadan

Hindi

1. Tale of Tailies by Ramendra Kumar

<http://ndl.iitkgp.ac.in/document/azZNbjVtQnJuSFc4N1lsVFZVTkpLMk9xZk9NZEVBVRVdxYVVXcUV5bEdoaz0>

English

1. The Uncorker of Ocean Bottles by Michelle Cuevas
2. The Watsons go to Birmingham by Christopher Paul Curtis

9. SANSKRIT

1 सर्वदा व्यवहारे स्यात् औदार्यं सत्यता तथा ।

ऋजुता मृदुता चापि कौटिल्यं न कदाचन॥

(Sarvada vyavahare syad awdaryam satyatha tadha.

Richutha mridutha chapi kawdilyam cha kadhachana.)

You must be always generous, truthful, straight forward and pleasant .You should never be crooked .

2 Collect the pictures of a festivals and describe about it in Sanskrit.

10.WORK EXPERIENCE

Make innovative & creative "Art and Craft" works of your own taste and preference, other than the items you have already learned this year.

Any materials other than plastic can be used for the same .