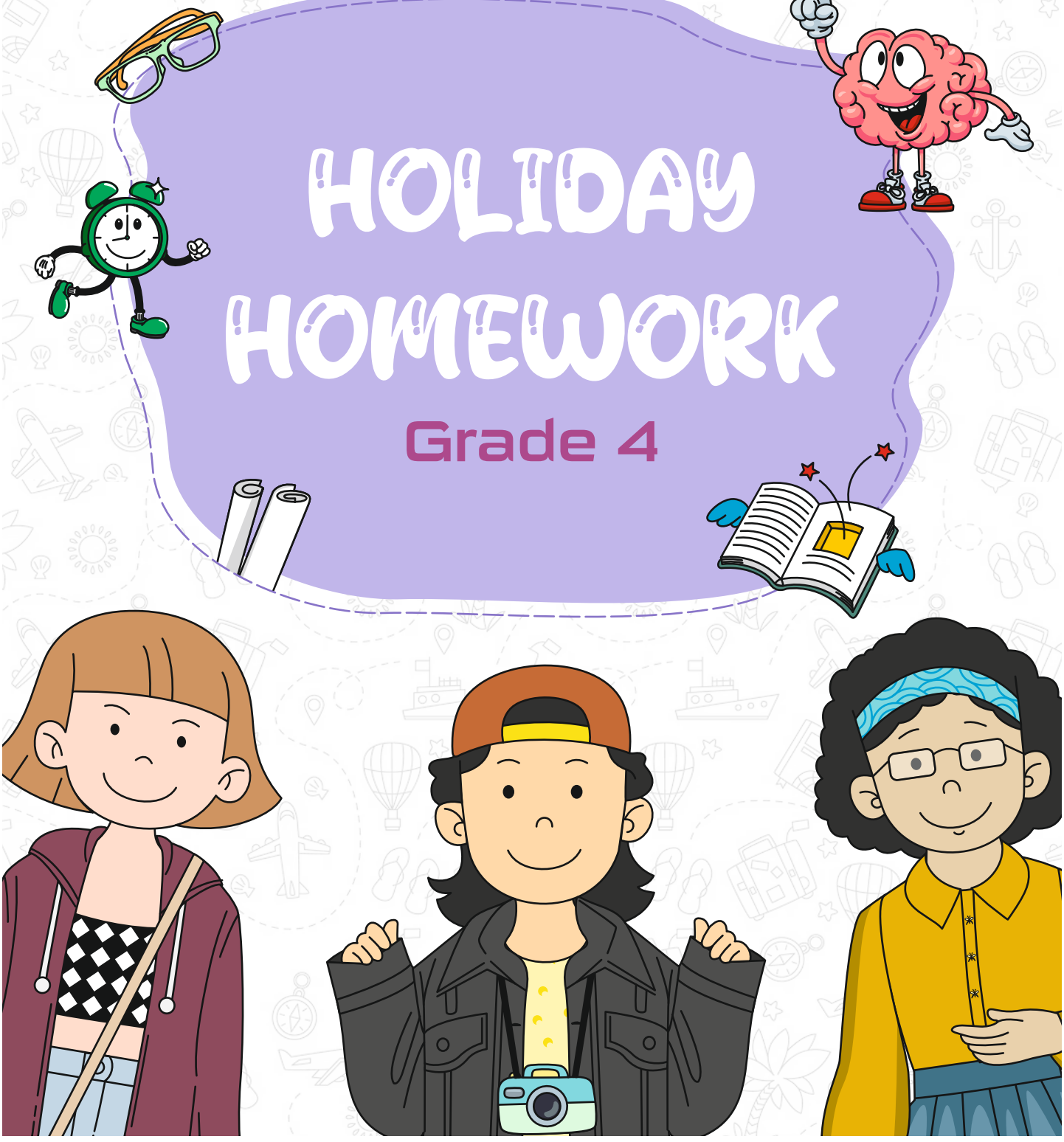


HOLIDAY HOMEWORK

Grade 4

Name: _____

Name of the Activity: Home Garden

Domain:

Learning Outcomes: This activity will enable learners to:

- understand where our food comes from
- engage in physical activity and outdoors learning
- know about seasonal flowers, fruits, and vegetables
- learn gardening skills and sustainability
- engage in recycling activities
- write dialogues
- create or draw a story

Preparation for the Activity: With the help of your parents, find a suitable place to grow seasonal flowers, fruits, and vegetables. You can also use pots, recycled bottles, and containers, even egg shells creatively.

Materials and Resources:
Saplings or seeds of seasonal flowers, Fruits, and vegetables, Soil and manure, Gardening tools, Worksheet

What to do:

First, find out more about seasonal flowers, fruits and vegetables. You will also need to find out which ones can grow in your climate. A plant nursery is a good place to start getting all this information from.

Prepare the pots by lining them with soil and manure mix. Take help of a grown up.

Shiva can show you the basics at:

You can scan the QR code to watch the video.

You can recycle plastic bottles into pots, planters, watering cans, sprinklers, etc. Scan QR code for more information.

Wait patiently for your plants to grow and yield flowers, fruits, and vegetables. Even herbs like mint and coriander can be easily grown.

Now, enjoy the 'fruit' of your hard work by making simple recipes with what you have grown.

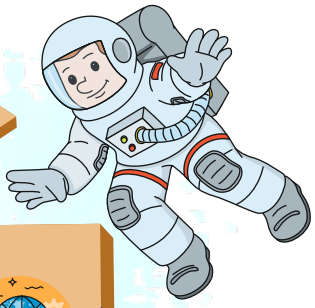
Now try the following activity to maximize your fun.

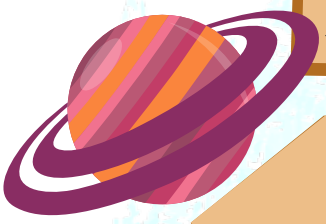
What can parents do: Knowing all the hard work that has gone into creating the produce makes their own, freshly grown fruits and vegetables all the more delicious for your child. It is also very satisfying knowing precisely the processes involved in creating what they are eating. Introducing them to simple recipes that they can cook will be a great idea to encourage healthy eating habits. This activity gets children away from screens providing them with *hands-on learning* experiences. In this unique environment, they can also learn valuable *social interaction skills* by working *cooperatively* with others, *developing communication skills* and learning *long-term planning skills*.

How will it help the learner: Planning, building and establishing the garden, right through to harvesting, cooking, *recycling*, and even cleaning up afterwards (*self help*) encourages *learners' ownership*, and therefore, pride and passion about food and gardening. This can lead to *healthy eating behaviours* for better health and learning. They will learn to recycle and care for the planet. Besides beautifying the immediate environment, this activity also helps in increasing *self-esteem* and *self-worth*. They will create dialogues and draw or write a story for self expression.

Take a print of the worksheet (attached at the end). Give each tree a name. Then, write a story with one or more of these trees as the main characters.

Name of the Activity: Inventors are Entrepreneurs



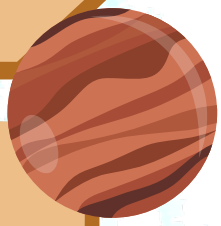


Domain:

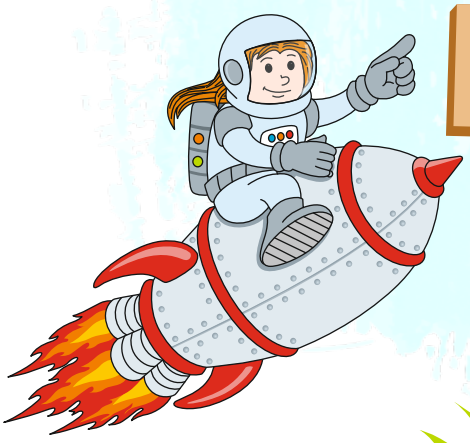
- Young Entrepreneurship
- Personal, Social & Emotional Development
- 21st Century Skills
- Language Development
- Global Dimension

Learning Outcomes: This activity will enable learners to:

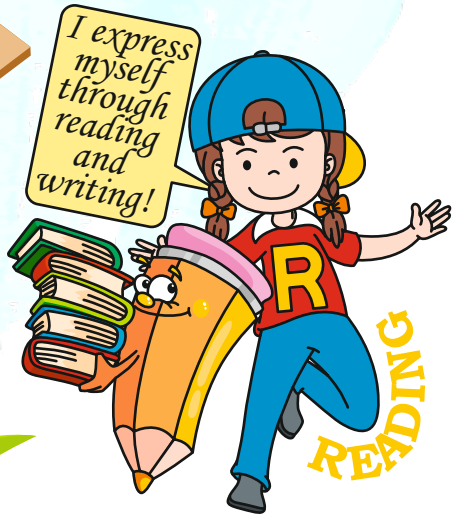
- understand that inventions and discoveries can help the inventor make money
- comprehend non literary written text use thinking skills to create a saleable product



Preparation for the Activity: Have you seen a Disney movie or cartoon? What about clothing or other products with Disney characters? Can you name the man who had the idea to develop these characters and products? It was Walt Disney. He is an example of an entrepreneur, or someone who takes the risk of producing a product or starting a new business. Can you think of the risks that entrepreneurs face when they bring the product or business to the marketplace? If they are successful, they make money, but they may also lose it.



Materials and Resources: Worksheets



What to do:

One way to become an entrepreneur is through inventing or creating a new product for the marketplace, like a new type of game or household product.
Scan the QR code and read the story of Maurice Scales, a seven-year old boy who created a product for an invention competition at his school.
Once you read the story, print the worksheet (attached at the end) and complete it.

2022-23/
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What can parents do: Help your child research the lives of inventors and entrepreneurs from India and abroad. Discuss what made them successful. Encourage any business venture they may have, like a lemonade stall.

How will it help the learner: The learners will be introduced to businesspersons and innovators who are children. They will read the story of one such person and answer questions based on it. They are going to use their *thinking skills* to complete the worksheet and come up with great ideas that sell.

24/7
365

SUNDAY

Name of the Activity: Calendar Magic

Domain: Mathematics, 21st Century Skills, Life Skills

MONDAY

Learning Outcomes: This activity will enable learners to:

- become familiar with the calendar
- calculate days to a specific date
- create calendar for two months

TUESDAY

Preparation for the Activity: Notice days and dates in the calendar.

Materials and Resources: Worksheet

What to do:

Use the blank template (attached at the end) to create the calendar for the current month and the next.

Remember to write all Saturdays, Sundays, and other holidays/festivals in red.

Decorate your calendar using different colours and drawings.

Now try this Calendar Magic

Select any section of the calendar that includes a 3-by-3 square grid (3 rows of three numbered squares) as highlighted in the above image.

Circle the three numbers that appear in the centre row of the calendar section you have selected. Note them down and add them up. Note down their sum too.

Then, circle the three numbers that make up the diagonal on the right. Add them up too.

Do the same with the other diagonal.

You will end up with the same number all the three times!!

Isn't this magical?

Go through the worksheet and answer the questions that follow.

What can parents do: Display both a lunar and solar calendar prominently in the house. Let the child observe and compare both. Talk to the children about a lunar calendar. Let them discover which is more accurate? Also, let them think about the advantages and disadvantages of both.

How will it help the learner: Learning to read a calendar is an important math skill learners need to acquire. It helps them to solve problems involving elapsed time and predict when an event will occur.

Name of the Activity: Candle in Water

Domain:

Scientific Thinking

Creative Thinking & Expression

Learning Outcomes: This activity will enable learners to:

- make predictions about experiments
- do the experiments
- check their hypothesis after their observations

Preparation for the Activity:
You need no preparation.

Materials and Resources:
Water, Saucer or shallow bowl, Tea light or small candle, Lighter or match, Glass, Food colouring (optional)

What to do:

Aren't you curious about how the world works? It is time for some experiment fun. During experiment, ask an adult for help using the lighter or matches. Make sure you carry out the experiment away from flammable materials.

Here's what you have to do:

Pour water into the saucer or bowl to around 1cm deep. Adding a couple of drops of food colouring will make the water easier to see.

What do you think will happen when you place the burning tea light or small candle in the centre of the bowl? Draw your prediction in the worksheet (attached at the end).

Now go ahead and place the unlit tea light or small candle in the centre of the bowl, making sure that the wick doesn't get wet.

Take the help of an adult to light the candle.

Turn the glass upside down and place it over the candle carefully. Before you do so, draw and write your predictions about what you think will happen.

Then draw and explain what you observed in the worksheet.

What can parents do: Explain to the child that when the candle burns inside the glass, the air inside the glass gets warmer.

Warm air takes up more space than cool air. The air inside the glass pushes against the glass. Expansion of the warm air causes the air pressure inside the glass to increase.

Air wants to move from an area of high pressure to an area of low pressure. The high pressure air inside the glass tries to escape to the lower pressure air outside the glass. You can see little bubbles in the water around the bottom of the glass.

The candle needs oxygen to burn. It soon uses all the oxygen inside the glass. When the oxygen runs out, the candle stops burning.

Now the candle is out, the air inside the glass cools down again. The air pressure inside the glass is now lower than the air outside the glass.

Some of the higher pressure air outside the glass tries to get to the lower pressure air inside the glass. This forces water into the glass.

When water enters the glass, the space for air inside the glass is smaller. This causes the air pressure to rise. The water keeps going into the glass until the air pressure inside the glass is the same as the air pressure outside the glass.

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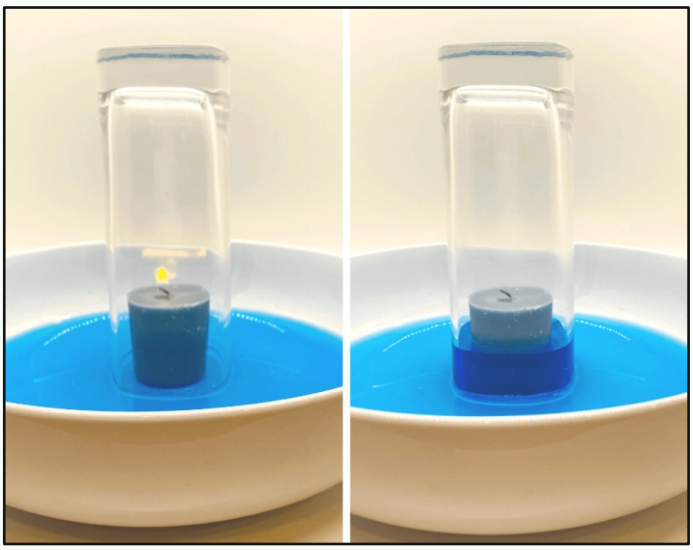
How will it help the learner: The learners make predictions while doing the experiment. They will also check their hypothesis after observation. They draw the prediction and the conclusion and so they use their *art skills*. Finally they explore how air has pressure and oxygen is needed for burning.



Name of the Activity: Mango Sorbet

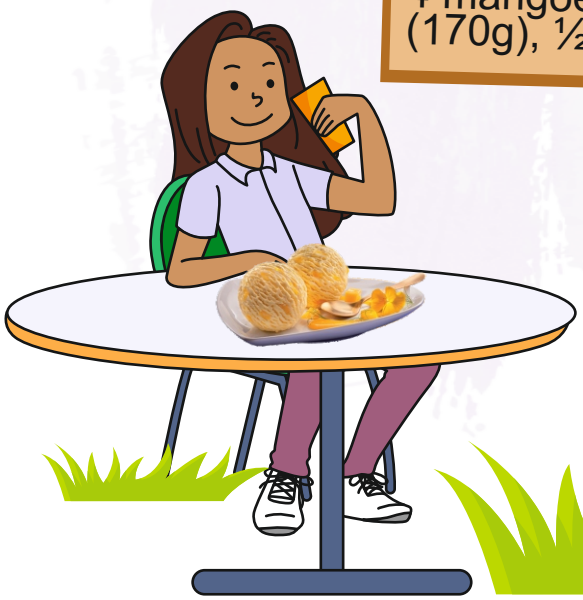
Domain: Scientific Thinking; Mathematics; Personal, Social & Emotional Development

Learning Outcomes: This activity will enable learners to:

- make mango sorbet
- learn about benefits of eating healthy

Preparation for the Activity:
Can you name summer fruits and vegetables? Which fruits do you think is called the 'king of fruits'? Why do you think that is? Do you know that honey is also a healthy and natural sweetener?

Materials and Resources:
4 mangoes, diced, ¼ cup honey (170g), ½ cup water (120ml)



What to do:

Scan the QR code to watch the video and read the recipe.

Take your mangoes and cut them into 1/2 inches (1.3cm) cubes and place them on a baking sheet or in a bowl.
Cover and freeze the cubed mangoes for 4 hours.
While the mangoes are chilling, look again at the ingredients and calculate how many total calories your dessert has.
Take your food processor and add the frozen mango cubes with honey and water.
Mix until the ingredients are smooth.
Remove your ingredients from the food processor and scoop into a loaf tin or a cup.
Freeze the ingredients for an hour.
Serve with a mint leaf on top and enjoy!
Do not forget to click a picture of your sorbet and share it with the class.

What can parents do: Encourage the child to help in the kitchen, emphasising on safety. Talk to them about healthy eating and the importance of consuming seasonal fruits and vegetables. Calorie calculating will help in numeracy enhancement. Appreciate their efforts in the kitchen.

How will it help the learner: The learners will enjoy making mango sorbet and will learn about the benefits of eating healthy and nutritious food. They are likely to relish things that they cook themselves. It is important that they are involved in kitchen activities to learn life skills. Parental appreciation will boost their self confidence and self esteem.

Name of the Activity: Home Garden

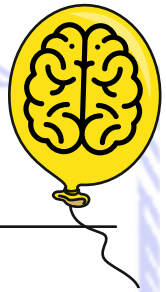
Tantalising Trees

GIVE THESE TREES NAMES

Write or draw a story containing one, or all of the trees.

Name of the Activity: Inventors are Entrepreneurs

Maurice Scales (Inventor and Entrepreneur)



a. How did Maurice get the idea for his invention?

b. What was the name of Maurice's invention?

c. How did the invention work?

d. Do you think Maurice was successful? What makes you think so?

e. Now think of a new invention or innovation, which is a change to an existing invention by improving it in some way. Write a description and draw a picture of your product.

Name of the Activity: Inventors are Entrepreneurs

MY INVENTION Ws

Invention W's for: _____

WHAT does it do? _____

_____

_____

WHEN would you use it? _____

_____

_____

_____

WHY is it helpful or WHAT problem does it solve? _____

_____

_____

_____

_____

WHO would you sell it to? _____

_____

_____

_____

HOW much would you sell it for? _____

_____

_____

Name of the Activity: Calendar Magic

Calendar Magic

Month of _____

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Satureday

Month of _____

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Satureday

- How many Saturdays are there in total in these two months?

- Which days are more—Saturdays or Sundays?

- How many festivals/birthdays of family members fall in these months?

- How many months are there till the end of the year?

- If your friend's birthday were on the 9th of this month, what day of the week will it be?

- What is the date of the third Tuesday of this month?

- What was the date last Thursday?

- How many days are there till Saturday?

- What is the season currently?

- How many months left of this season?

- What is the next season?

- How many days has it been since the school closed?

- Do you know what a leap year is? Is this year a leap?

Name of the Activity: Candle in Water

Burning Candle in Water Experiment

a. What do you think will happen when you place the burning candle (or tea light) in the bowl?

Draw your predictions

Draw your observations

b. What will happen when you place the cup over the candle?

Draw your predictions

Draw your observations

c. What happened to the water?

_____

_____

_____

d. Why do you think it happened? Discuss it with your friends, your teacher or your parents.

_____

_____

e. What would happen if you use more than one candle? Try it and find out.

_____

_____

_____

_____