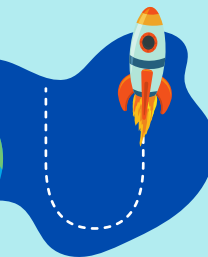
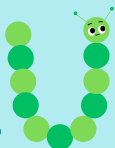
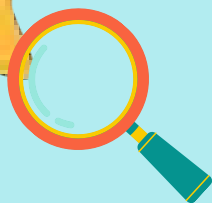




The



Atom

by the **The KK Times**

The Sense of SMELL

75% of taste is actually smell. Read more fun facts about smell in this edition of the *Curious Atom*.

ABOUT THE COVER

This illustration shows roses which have a wonderful smell owing to the distinct chemical mix that they release- the monoterpenes.

Marie Curie



Marie Curie was a famous scientist born on 7th November 1867. She is remembered for her discovery of radium and polonium, and her huge contribution to finding treatments for cancer.



The Qurious Atom | Issue 4 | 30 November | Monthly | Ghaziabad

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Page 8 & 9**

**I Wonder Why? -
Page 10**

Note from the Editor:

Dear valued readers,

We are delighted to share the latest issue of the Qurious Atom with you, focusing on the intriguing theme of smell. This edition features an engaging article, a captivating comic, and an exciting science experiment. In addition, we delve into topics such as flowers, World Science Day for Peace and Development, and offer additional entertainment with I Wonder Why. We encourage you to submit your contributions for Time Machine and Be A Scientist. Don't forget checking out facts vs myths. This edition includes various activities such as fun games, a crossword, and spot the difference. We also welcome your article submissions for the upcoming December edition. By the way some of your favourite stories are written by ChatGPT. Until next time, take care!

Sincerely, Kanira, Chief Editor

Next Issue of The Qurious Atom:

31 December 2023

Theme : Temperature

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Sniff, Sniff

What is that beautiful smell? Oh hey! I didn't notice you here. That smell must be your beautiful perfume. Anyways let's learn more about smell.

What is Smell?

Smell is the power of receiving odours or scents with our nose. It helps us to identify people, flowers and even food from one another.

Some Other Smells

There are many different types of smell such as the smell of a burning fire, raw fish, rotten egg, onion or a stinky fart. All of these may sound bad, but there are good ones like jasmines and roses, a nice steak dinner, mint, and a lovely Eau De Toilette, I mean perfume.

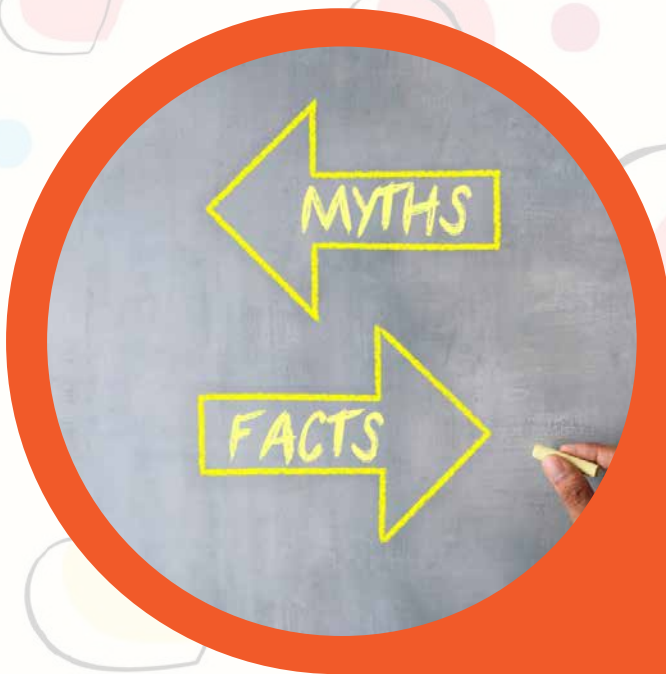
So stay Curious and don't forget to spray some parfum (French for perfume) on your skin.



Going out for a community gathering...



When you decide to head back home.



Thanksgiving is an annual holiday celebrated in USA & Canada to celebrate autumn harvest and other kindness of the past year with family and friends.

THANKSGIVING

MYTH

- You may have heard the age-old tale that tryptophan, an amino acid found in turkey, induces drowsiness after a Thanksgiving meal.
- Turkeys are slow-moving birds that lack the ability to fly.



FACT

- Carbohydrate rich meal directs your blood supply from your brain to stomach for digestion, thus making you sleepy.
- Domesticated turkeys (the type eaten on Thanksgiving) are heavy and cannot fly. But Wild turkeys can reach speeds of up to 20-25 miles per hour on the ground and fly for short distances at speeds approaching 55 miles per hour.



CHEMISTRY



LAB

Jumping Corn



MATERIALS-

Safety Mat,
Vinegar,
Measuring
Cup, Test
Tube, Baking
Soda,
Water,
Popcorn
Kernels,
Spoon

WHAT TO DO-

Lay a safety mat on a flat surface and start the experiment. In a measuring cup, measure 5 ml of water and add it to the test tube. Using your spoon take a small scoop of baking soda, add it to the test tube and mix well. Then add 2-3 popcorn kernels in the tube. Last, but not least, pour in 10 ml of vinegar slowly.

WHAT HAPPENS-

The liquid starts fizzing; the popcorn kernels start floating up and down. A fascinating occurrence takes place when liquid vinegar (an acid) and solid baking soda (a base) mix. They turn into carbon dioxide. The carbon dioxide bubbles elevate the corn, only to witness it gracefully descend when the bubbles burst.





THINGS
TO DO

World Ecology Day

Save the Planet

1. Don't eat meat.
2. Bathe with a bucket.
3. Use renewable energy.
4. Use a cycle or public transport instead of personal car.
5. Use normal utensils instead of disposable plastic cups and plates.
6. Eat seasonal fruits and vegetables.
7. Avoid printing and use both sides of a paper to reduce deforestation.
8. Use cloth bags instead of plastic bags.



Keep
the
Planet
Green



World Science Day for Peace and Development is a day to celebrate the power of science to make the world a better place.

World Science Day for Peace and Development is an important day for kids around the world because it helps them to:

- Understand the role of science in their lives;
- Develop critical thinking skills;
- Become more curious and creative;
- Prepare for the future.

By learning about science, kids can better understand how the world works and how they can make a positive impact on it. For example, students can engage in citizen science projects to collect data on important environmental or sanitation issues. By engaging in scientific activities, such as by building simple robots or creating their own apps, children can learn how to think critically and solve problems effectively.

Be A Scientist



1. Research about anything in science, write and send it to us.
2. Draw or design your own machine, colour it, and send.
3. Write a few paragraphs about anything that you would like to do in science.

OR

Do it all to see a full page dedicated to your Kreations.

CREATE!

The Curious Chronicles of Jungle Grove

Ch-3 Blossoming Wisdom: Mandy's Oak Tree Adventure



In the heart of Jungle Grove School, where curiosity bloomed like wildflowers, Mandy the Monkey, George the Giraffe, and Emma the Elephant were in for another delightful lesson with their favorite teacher, Ms. Wendy Wolf.

One sunny day, Ms. Wendy gathered the students under the flourishing canopy of the banyan tree. "Today, my little gardeners, we're going to explore the magic of plant growth!"

Eager eyes sparkled as Ms. Wendy Wolf explained the intricate process of growing a plant, from a tiny seed to a towering tree. She emphasized the importance of sunlight, water, and care in nurturing these green companions.

To add a touch of excitement, Ms. Wendy handed out the second edition of "The Curious Atom," their school newsletter. This edition focused on trees, inspiring the children to choose a plant to grow and document its journey.

STORY

Mandy, always ready for a challenge, decided to grow an oak tree. Armed with a little pot, soil, and a tiny acorn, she diligently took a photo of her plant every day for a month. In her project, she shared tips and tricks for successful plant growth, making it an informative and visually appealing compilation.

When the month came to an end, the students excitedly submitted their projects to Ms. Wendy. Each project was a unique blend of creativity and knowledge, showcasing the diversity of the jungle's budding botanists.

During the presentations, Mandy stood before her classmates, sharing her oak tree's journey. "I noticed that my plant quickly changed from a seed to a sapling," she said, presenting her daily photos and sharing the valuable lessons she learned about patience and nurturing.

After all the projects were presented, Ms. Wendy announced the results. Jackie the Jackal secured the first place with an impressive score of 99/100, leaving Mandy in second place with a score of 97/100.

Mandy felt a twinge of sadness but, determined to uplift her spirits, she swung back to her treehouse. Her mom, Monica, greeted her with a warm hug. Sensing her daughter's disappointment, Monica gently said, "Just like you wrote about how a plant grows, your knowledge also keeps expanding like a tree. It's never too late to stop learning."

Mandy looked up at her wise mother, realizing that growth comes in many forms. With renewed determination, she set her sights on the next adventure, eager to let her knowledge blossom like the leaves of her favorite oak tree.



**DO YOU KNOW THAT A
FULLY GROWN OAK TREE CAN PRODUCE ANYWHERE
BETWEEN 2,000 AND 10,000 ACORNS A YEAR?
BUT FOR EVERY 10,000 ACORNS DROPPED BY A SINGLE
TREE ONLY ONE OF THESE WILL GROW UP TO BECOME
ANOTHER FULLY GROWN OAK TREE.**

WONDER WHY?

DOGS SMELL
SO WELL



SNIFF

Dogs have between 125 and 200 million olfactory receptors — the cells that detect scents — compared to the 5 million that humans generally have.



MARSHMALLOWS
ARE SOFT

A marshmallow is made of mostly sugar and air, and sugar molecules are arranged in a way that traps pockets of air inside a marshmallow. These pockets of air can be thought of as many little sugar balloons.

★ SO
★ SWEET





Forest of Flowers

Flowers are those beautiful things which seem like fantasy. Though they are so small, they have a lot of parts. So fellow botanists, let's learn more about them.

The female part of the flower is called **Pistil**. It includes the style, stigma and ovary of the flower.

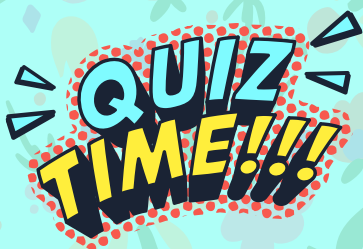
The **style** is the long stalk which supports the stigma. The **stigma** is the sticky part of style which helps to collect pollen and the **ovary** contains the ovules and is the connecting part of the sepals and petals.

The **stamen** on the other hand is the male reproductive part of a flower which includes the anther and filament.

The **anther** is at the top of stamen producing pollen.

The **filament** is the long stalk which holds the anther.

Flowers also have a beautiful smell. So be sure to check out the other articles in the Quirious Atom. Peace out!



Q1. What is the female part of a flower?

Q2. What is marshmallow made of?

Q3. What is the topic of Facts vs Myths in this edition?

Q4. What tree did Mandy grow for her project?

Q5. When is World Science Day for Peace and Development celebrated?



Game On!



GAME 1: SMELL MATCHER

Create a memory-style card game that engages your friends's sense of smell.

Use 3x5 index cards or pieces of cardstock and apply a thin layer of white glue. While the glue is still wet, sprinkle a powdered herb or spice, such as cinnamon, pepper, coriander, cardamom or Spanish paprika, onto the glue. Each spice should be featured on two cards, with a total of at least twelve cards. To play the game similar to Memory, shuffle the cards and place them face down. Now you can challenge your friend to a game of Smell Matcher.



A cartoon illustration of a young boy with orange hair, wearing a yellow shirt and blue pants, holding a bouquet of yellow and pink flowers. He is standing in the top right corner of the page.

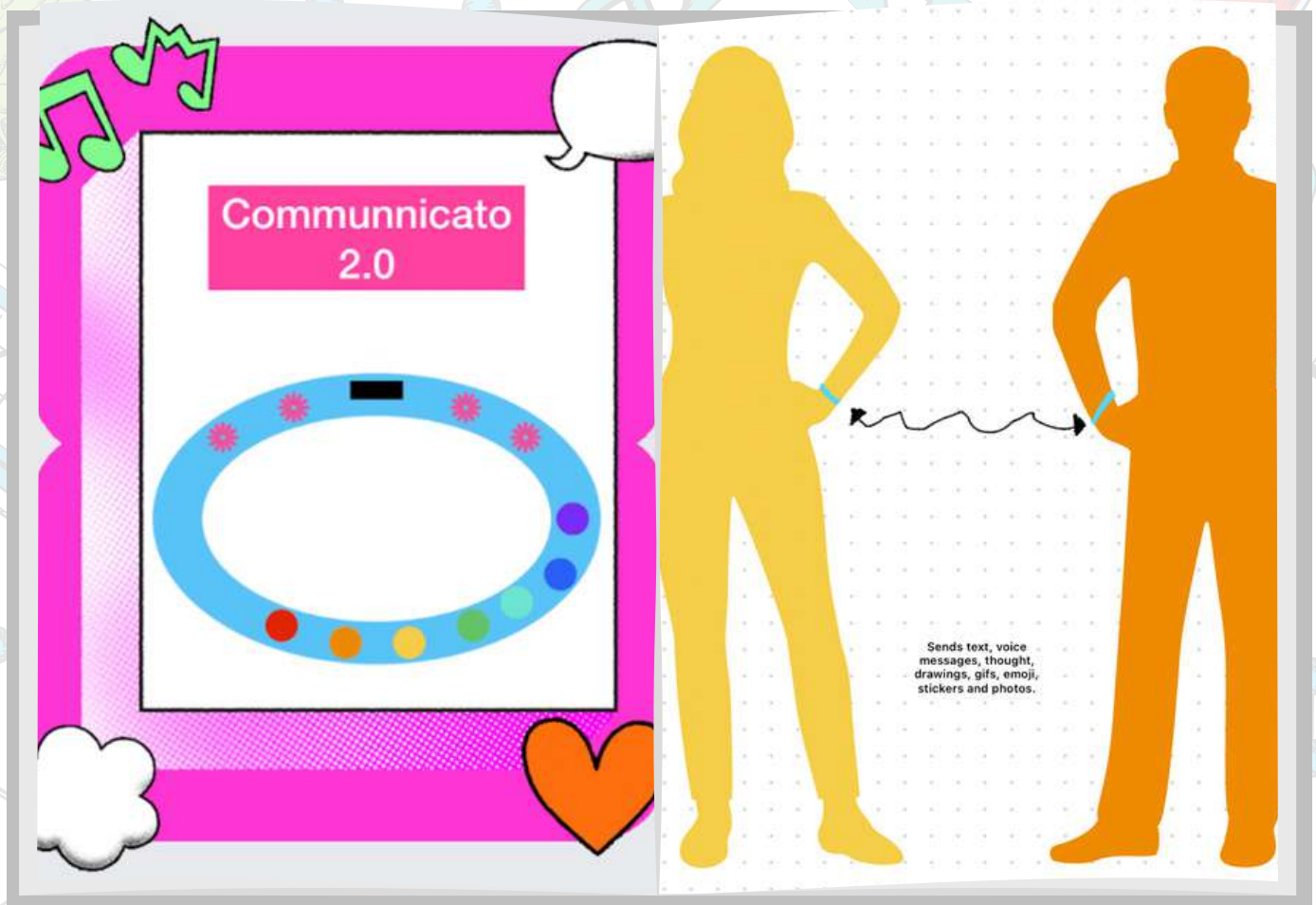
WHAT'S THAT SMELL?

GAME 2: DETECTIVE SNIFF

How many smells can you smell?
Collect 10 different items with different scents. Let your friend smell all 10 items so they are familiar with the different smells. Give a list of the items to your friend. Now mix two smells together. Can your friend correctly identify the smells you have mixed? What if you mix three, four or more smells together. Can your friend still identify each smell?



Be A Scientist



COMMUNICATO

Communicato is a bracelet that reads thoughts in another persons mind. (Must be saved in Contacts). It has 5 styles- Transparent, Rainbow, Black, White and Neon. The band also has a **THOUGHT LOCK** for censored thoughts that a person can put on when he is thinking about something that he does not want everybody or one person to know.

COMMUNICATO 2.0

Communicato 2.0 is a bracelet that has seven buttons. Each of them have special ways to communicate. The buttons are of rainbow colour. My invention is portable, renewable and reusable. Communicato 2.0 is the second version of an original idea of the mind reading device given above with add-ons like Draw Thoughts, Breaking News (allows you to share thoughts to everybody immediately) and Save (allows you to save particular thoughts, dreams or ideas for later; you don't forget them). For more fun you can 3D print objects with your mind, but you have to ThinkPay (imaginary app to pay on Communicato series). The band is also lighter now.

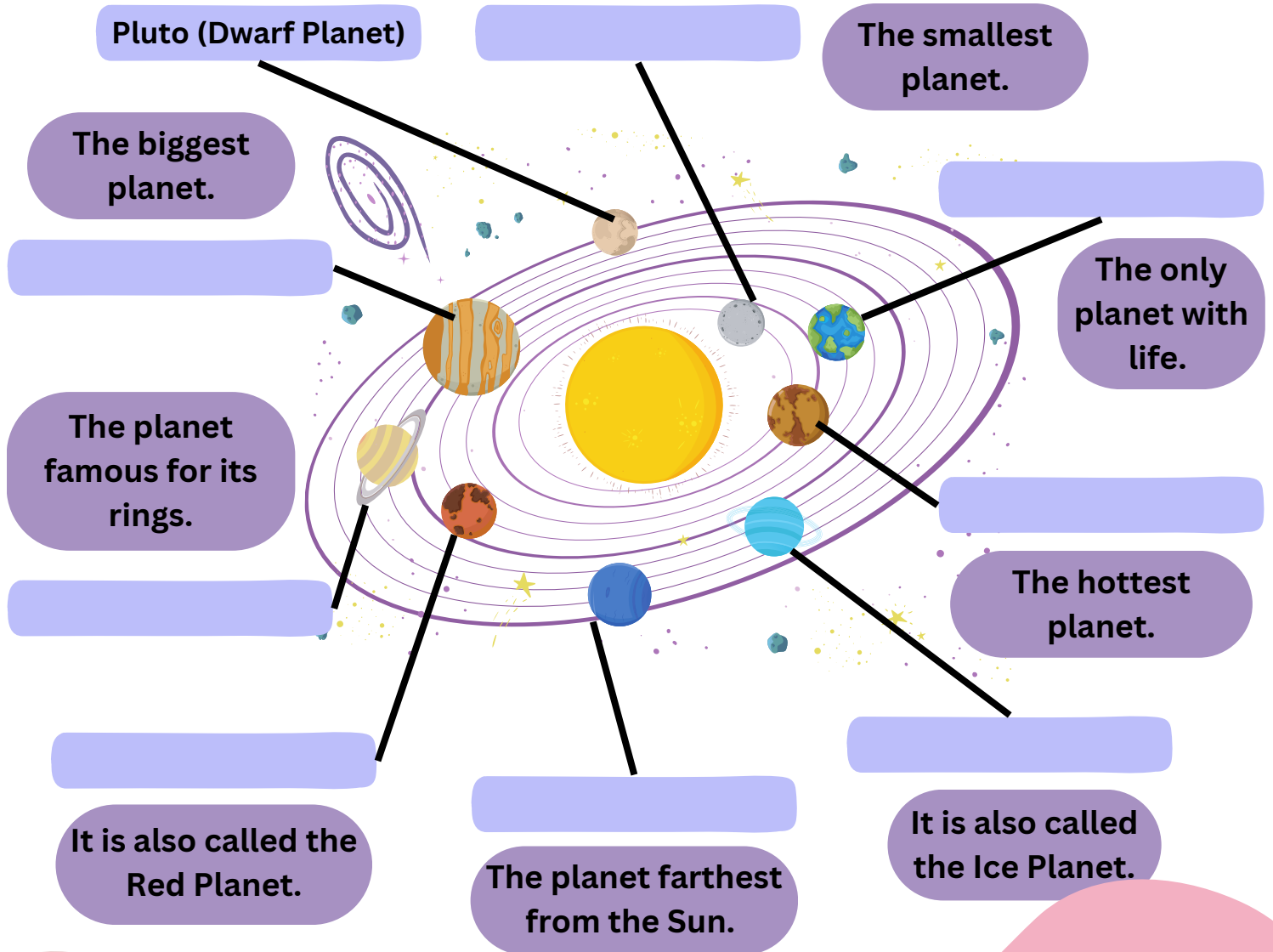
Designed at
Apple Camp



KANIRA GUPTA
Class 4, AISV6

Explore Space

Our Solar System contains 4 Terrestrial Planets and 4 Gas Giants and an asteroid belt in between of them. Let's explore space by naming the 8 planets with hints to help. Pluto was also considered a planet earlier so it is already labelled for you.



Some important Solar Missions launched by space agencies of different countries are:

Europe: Ulysses, Proba-2

Japan: Hinotori (ASTRO-A), Yohkoh (SOLAR-A), SOHO, TRACE & Hinode (SOLAR-B).

China: Advanced Space-based Solar Observatory

India: Aditya L-1

USA: Parker Solar Probe, The Solar Orbiter, Solar Dynamics Observatory, Interface Region Imaging Spectrograph, etc.

SPOT THE DIFFERENCE

Spot the differences between the two figures.
Answers in the next edition.

SCIENCE SONG

Growing a Plant

Growing a plant,
Takes a lot of time.
A few mistakes,
Are not a crime.

First you have to
Plant a seed.
Make sure you
Look out for weed.



Sapling- it
Turns into.
Grow a flower,
Maybe two



A fruit comes out,
From the young tree.
This is the plant,
Grown by me.

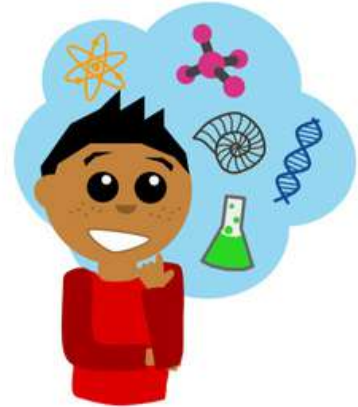
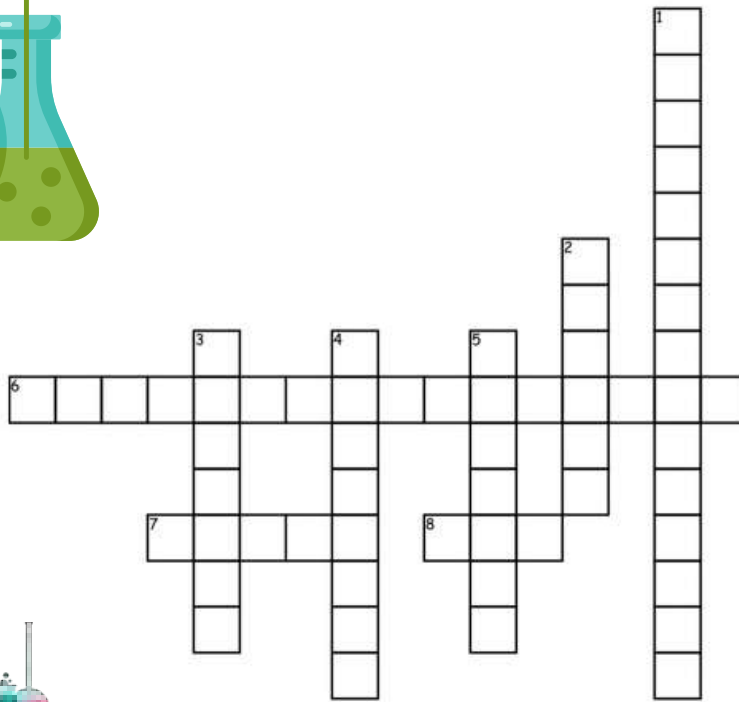
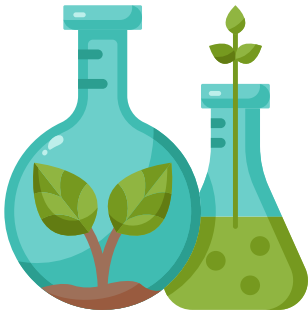
ORIGINAL POEM BY
KANIRA GUPTA



Spot The Difference
Answer of October Issue



SCIENCE

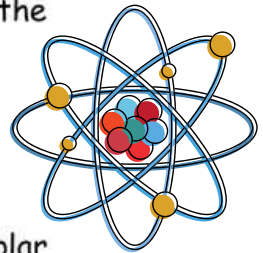


Across

6. The person who invented the light bulb
7. 70% of the _____ is water
8. It is the star in the center of the Solar System

Down

1. The person who invented the X-Ray
2. One of the gases present in the Sun
3. Animals who give birth to babies directly are called _____
4. The largest land animal
5. The smallest planet in the Solar System



US space agency NASA's James Webb Telescope shares this captivating image of a new-born star with colourful nebula at the bottom of the image on November 28.



Indian space agency ISRO's multi-wavelength telescope ASTROSAT detected on November 22 an intense burst of gamma rays - its 600th gamma ray burst detection

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