

Welland Gouldsmith School

Class VI Mathematics

(FUN WITH NUMBERS -1)

Aim:- To Consolidate the concepts of addition and subtraction by creating a 4 by 4 " Birthday magic Square" with first row containing the date of birth and all other rows and columns and diagonals having the same sum,

Procedures: Step-1, Create a 4X4 blank magic square.

10	04	20	07

Step-2, In the first row, entire your birth date, say, 10th April'2007 Find the sum of two middle numbers in the 1st row.

That is $4+20=24$

Find 2 Numbers other than the numbers already figuring in the magic Square such that their sum is 24, for example $11+13=24$,

Step-3, Place these numbers in the 1st and the last box of the last row,

10	04	20	07
11			13

The end numbers of the both the diagonals are now available. The sum of end numbers of one diagonal should be equal to the sum of the 2 mid numbers of the other diagonals.

Step-4, add the end terms of any one diagonal, say the diagonal from top left to bottom right , $10+13=23$,

Step-5, find 2 numbers, not used so far in the magic square with sum as 23, say $15+8$ Place these numbers in the middle boxes of the other diagonal, top right to bottom left.

10	04	20	07
		08	
	15		
11			13

Step-6, in the same manner fill the 2 empty boxes of the other diagonal. That is $11+7=18$, 2 boxes in the diagonal can be filled with 12&6

10	04	20	07
	12	08	
	15	06	
11			13

The sum of numbers in the 1st row is = $10+04+20+07=41$,

Thus the empty boxes in the 2nd and 3rd column can be filled as follows:- 2nd

Column, last box' $41-(4+12+15)=10$

3rd column, last box' $41-(20+08+06)=07$

10	04	20	07
11	12	08	16
09	15	06	05
11	10	07	13

Fill the 2 boxes of the 1st column with numbers with sum= $41-(10+11)=20$. Say 11&09

Fill the empty boxes with numbers such that the sum of the numbers in the 2nd & 3rd row become 41

Observation:- the magic square has now been constructed with the 1st row giving the date of birth and all the other rows and columns and diagonal having the same sum.

Welland Gouldsmith School

Class VI Mathematics

1. A boy walks 2km in 40 minutes. What time will he take to walk 7km?
2. What is the average of first six even numbers?
3. A box is 20cm long, 10cm wide and 5cm high. What is its volume in cubic metres? 4. 27 cm is% of 1.35m.
5. $39 \times 13.6 = 3.9 \times 1.36 \times \dots\dots\dots$
6. In an equilateral triangle each angle measures.....degrees.
7. Simplify : $2 \times 10 + 15 - 15 / 3$
8. A bottle of jam contains 0.750 kg of jam. How much jam will be there in 20 such bottles?
9. The area of a rectangle whose length is 8.5cm and width is 4cm is.sq.cm.
10. 105 out of 1500 =.....%

Welland Gouldsmith School

Class 6

Physics

Directions:-What do you understand by the properties of Matter? Research and answer the following questions. (Time 20 minutes)

1. What is matter? _____
2. What are the three states of matter?

3. Which state holds its own shape? _____
4. What state of matter takes the shape of its container? _____
5. Name three solids _____
6. Names three liquids _____
7. Names three gases _____
8. What is the boiling point of water? _____
9. What are the physical properties of matter? _____
10. All matter has _____ and
Takes up _____




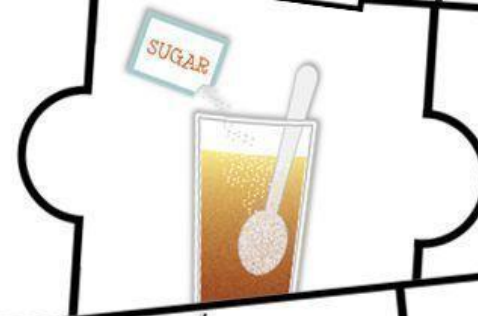

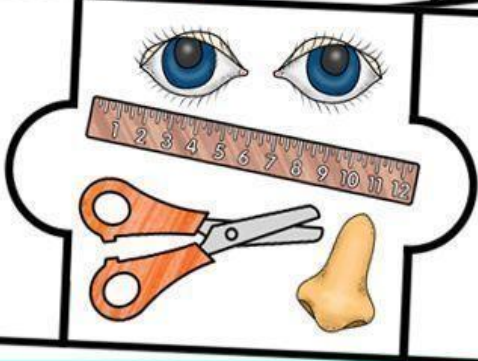
Class 6 Physics: Directions:-What do you understand by the properties of Matter? Research and answer the following questions. (Time 20 minutes)

STATES OF MATTER

Vocabulary Puzzles

little SMARTICLE PARTICLES
science & math for little peeps!

Vocabulary matching puzzle cards for twenty key states of matter terms!

matter		solids, liquids, and gases are all examples
solution		a mixture in which one substance spreads out evenly in another
boiling point		the temperature at which a substance changes from a liquid to a gas
physical property		a property that can be observed, measured, or changed without changing the substance itself

Class 6 : Force:- Push and Pull of an object is known as Force. Based on the information provided complete the given assessments.

FORCE & MOTION VOCABULARY FOLDABLE

force	A push or pull that makes something move or be put into motion
motion	Changing location or moving from one place to another
friction	The pull that makes a moving object slow down or stop moving
gravity	A force that pulls things toward the center of the earth
push	Applying force on something to move it away
pull	Applying force on something to move it towards or with you

NOT TO BE USED ON THE BACK OF THIS PAGE TO BE USED ON THE FRONT



Class 6: Force and motion comprehensive test. Research and answer the following..... (Time 20 minutes)

1. The pushing and pulling of an object produces motion called
 - a. Gravity
 - b. Force
 - c. Playing
2. Gravity objects down to the earth.
 - a. Trips
 - b. Pulls
 - c. Throws
3. Normal force pushes objects to balance gravity.
 - a. Sideways
 - b. Upwards
 - c. Downwards
4. The force that can stop an object in motion is called.....
 - a. Resistance
 - b. Inertia
 - c. Gravity
5. Some resistance forces are
 - a. Star Wars rebels
 - b. Friction and air pressure
 - c. Friction and gravity
6. Things that can affect how fast or slow something moves are
 - a. Resistant force
 - b. Gravity force
 - c. Ballet force
7. Inertia means an object will move in the direction until another force affects it.
 - a. Same
 - b. Faster
 - c. Slower
8. If an object is not moving it will stay that way until another force acts upon it.
 - a. True
 - b. False
 - c. Maybe
9. Motion is caused by.....
 - a. A push
 - b. A pull or push
 - c. Pull
10. Circle all the different ways something can move
 - a. roll
 - b. spin
 - c. sleep

Welland Gouldsmith School

Chemistry Worksheet and Assignment

Class VI

Time 30 minutes

Worksheet

Logical reasoning

1. Riya loves to eat ice cream. Her mom purchased two ice creams for her. She had eaten one ice cream and kept the other one in the kitchen and went to play. When she came back she noticed the ice cream got melted. What should Riya do and why?

Quiz question

2. What is H₂O more commonly known as?

State true or false

3. Water drops that collect outside a glass of cold juice come from the air around us.

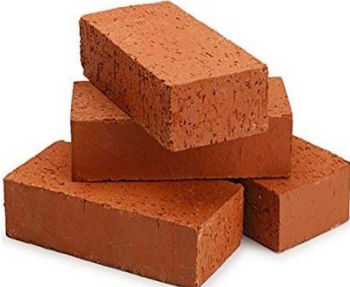


Choose the correct answer from the choices given below

4. Pick the odd one out

a) love. b) smell. c) almonds. d) thoughts.

Assignment

1. Complete the following table

matter	Key words	picture
_____	*has a mass *material *compact	
_____	*can flow *can pour it *water	
_____	*can hold it *hard *hold their own shape.	

2. Describe matter using properties.

List 3 types of matter that you would describe using the following properties:

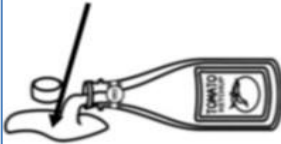
1. Thick and Thin _____.
2. Smell _____.
3. Strength _____.
4. Absorbency _____.
5. Durability _____.
6. Shape _____.

3. Whats the matter?



- 1 Does it take up space? _____
- 2 Does it weigh anything? _____
- 3 Can you see it? _____
- 4 Can it change its shape? _____

Exhaust is a _____



- 1 Does it take up space? _____
- 2 Does it weigh anything? _____
- 3 Can you see it? _____
- 4 Can it change its shape? _____

Ketchup is a _____



- 1 Does it take up space? _____
- 2 Does it weigh anything? _____
- 3 Can you see it? _____
- 4 Can it change its shape? _____

A baseball is a _____



- 1 Does it take up space? _____
- 2 Does it weigh anything? _____
- 3 Can you see it? _____
- 4 Can it change its shape? _____

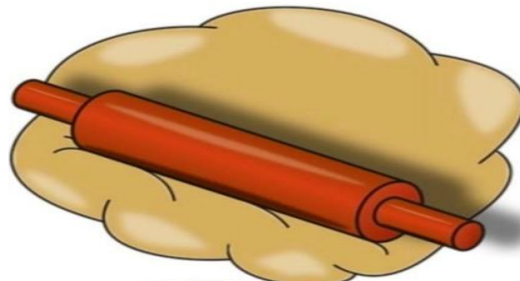
Salt is a _____



- 1 Does it take up space? _____
- 2 Does it weigh anything? _____
- 3 Can you see it? _____
- 4 Can it change its shape? _____

An apple is a _____

List 5 examples of matter that you can bend to change its shape.




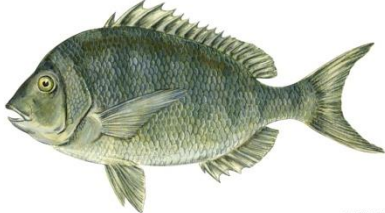


WELLAND GOULDSMITH SCHOOL

Class VI

Subject : Biology

Worksheet 1

I. Match the animals with their body coverings (4 min)

			Body Covering
1		A	Scales
2		B	Hair
3		C	Fur
4		D	Shell
5		E	Feather



II. Fill up the blanks from the word bank

(8 min)

- i) Green plants are called _____ .
- ii) Plants give out _____ and take in _____ during photosynthesis.
- iii) Fungi and bacteria are _____ .
- iv) Process by which green plants make food is called _____.
- v) Animals and human beings who depend on plants and animals for their food are called _____.
- vi) Goat, sheep and cow are called _____ .
- vii) _____ survive on the flesh of dead animals.
- viii) Carnivores that feed on herbivores are called _____.

scavengers , producers, photosynthesis, secondary consumers, carbon dioxide, oxygen, omnivores, herbivores, decomposers

III. Know how the body works

(8 min)

Label the parts of the skeletal system



A -> Humerus

B -> Rib

C -> Radius

D -> Skull

E -> Hinge Joint

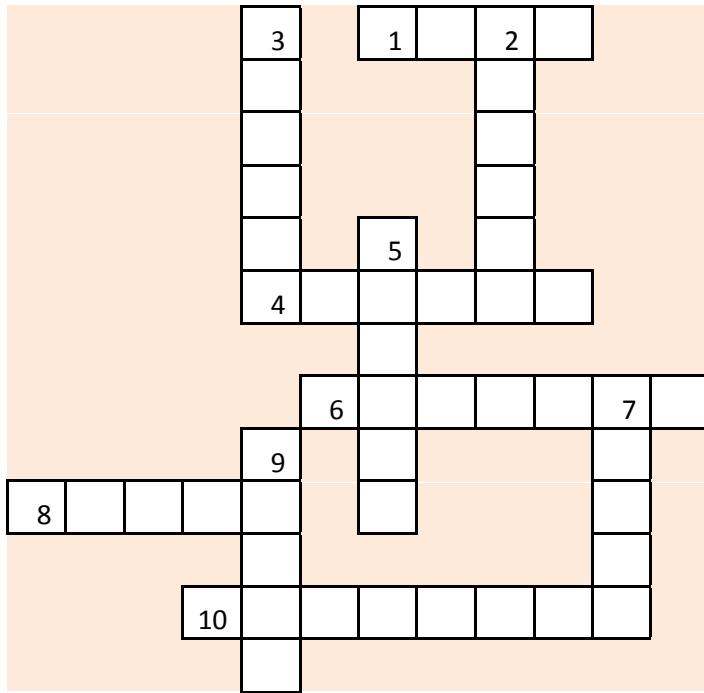
F -> Femur

G -> Tibia

H -> Sternum

IV. Crossword puzzle

(10 min)



Across:

1. Like all living things, plants _____ and change
4. Roots hold plants in the _____
6. Most plants have _____ that make seeds
8. All plants need sunlight, food and _____
10. Plants use _____ to stay healthy

Down

2. Plants give off _____ to help us breathe
3. Plants are _____ things
5. Insects carry _____ from flower to flower
7. The _____ of a plant take in water and minerals from soil
9. Sometimes, a plant can grow _____ that we can eat.

WELLAND GOULDSMITH SCHOOL

Class VI

Subject : Biology

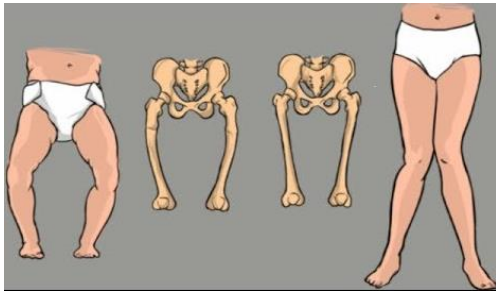
Worksheet 2

I. Quiz time:

(8 min)

a.
Deficiency of _____ causes Night Blindness (Vitamin B₁ / Vitamin D / Vitamin A)

b.



Deficiency of which nutrient leads to this disease (Vitamin A / Vitamin D / Vitamin C)

c.

Having iodized salt regularly in your food will help in prevention of _____
(goitre / anaemia / rickets).

d.

If you are suffering from anaemia, the group of foods that you should include in your diet are :

(Cheese. milk, eggs / cereals, grains, legumes / fish, eggs, butter)

e.

Sunlight is a good source of _____ (Vitamin E, Vitamin D, Vitamin K).

f.

Swollen or bleeding gums can be prevented by including this vitamin in your diet :
(Vitamin A, Vitamin B₁, Vitamin C).

g.
This vitamin is essential for blood clotting functions : (Vitamin K, Vitamin C, Vitamin D)

h.
State True / False

Cooking vegetables in minimal water for short time or steaming will preserve the nutrients.

II. Who am I ?(Name the food item, starting with the letter in brackets) (5 min)







1. I am a green leafy vegetable and I am a rich source of iron . (S_____ H)
2. I am a citrus fruit. You can eat me to keep your teeth and gums healthy. (L_____)
3. Favourite of rabbits, I help keep your eyesight good (C _____).
4. Made from milk, you love to eat me with sandwich. I am a source of calcium. (C ___ S ___).
5. You love to eat me everyday. I am a good source of Vitamin A and D (E _____).



III. Circle the things that go into a basic First Aid Kit ? (4 min)



IV. Match the correct traffic sign / signal with the meaning:

(8 min)

a		Pedestrian Crossing
b		School nearby. Attention
c		Men At Work
d		Cross road
e		Narrow bridge
f		No Parking

g	 A triangular warning sign with a red border and a black silhouette of a fire extinguisher.	Fire Extinguisher
h	 A triangular warning sign with a red border and a black silhouette of a person slipping. The sign is set against a light gray background.	Slippery Road