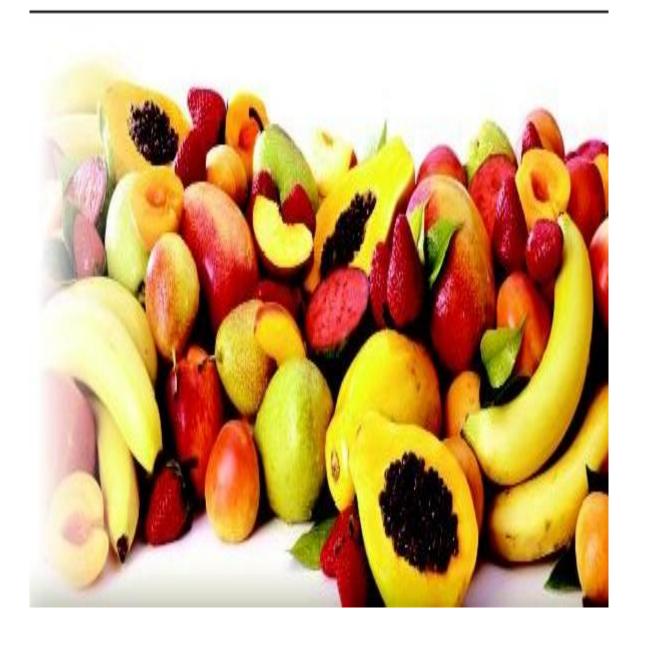
REJUVENATE YOUR BODY WITH FRUITS



LIST OF CONTENT

S.NO	CONTENT	PAGE
1	ABSTRACT	3
2	INTRODUCTION	4
3	REVIEW OF LITERATURE	5
4	MATERIAL	7
5	RESULT AND DISCUSSION	13
6	CONCLUSION	16
7	ABBREVIATIONS	17
8	BIBLIOGRAPHY	17
9	ACKNOWLEDGEMENT	18

ABSTRACT

Dehydration is a deficit of total body water. It occurs when free water loss exceeds free water intake. In the elderly, blunted response to thirst and /or inadequate ability to access free water may result in dehydration. The objective of this project is to identify the fruit which contains the maximum water content among the annual fruits, Apple, Papaya, Pomegranate and Banana. The fruits were weighed and the weights were tabulated. To obtain the content of water the fruits were dried in the oven. The weight of the dried fruits were tabulated and compared. The fruit with highest difference calculated weights is the one with the highest water content.

INTRODUCTION



INTRODUCTION:-

Water is the body's principal chemical component and makes up about 60 percent of our body weight. Every system in our body depends on water. Water regulates body temperatures, eliminates toxins, carries nutrients and oxygen to the cells, and provides a moist environment for body tissues and joints.

An appropriate water and electrolyte balance are critical for the function of all body systems. Water provides the medium for biochemical reactions within cell tissues and is essential for maintaining an adequate blood volume and the integrity of the cardiovascular system.

According to the Institute of Medicine, 20 percent of water intake comes from food sources. Many fruits and vegetables, such as watermelon, broccoli and tomatoes, contain 90 percent or higher water content by weight.

Annual Fruits contain 80 to 98 percent water which is one of the easiest ways to improve the hydration.

Electrolytes: Electrolytes are electrically charged minerals that play a role in muscle contraction and various other physiological processes. The right balance of electrolytes in the body is vital to maintaining proper body function. Electrolyte imbalances occur when the amount of water in your body fluctuates

FORMULATION OF HYPOTHESIS:

My Hypothesis is that we can maintain our body hydrated throughout the year by consuming Annual Fruits which contains more water irrespective of season.

Among all these Annual fruits (Apple, Banana, Pomegranate, Papayya)

Apple may contain more water.

- 1. Do Annual Fruits helps in hydrating the body?
- 2. How can be electrolytes regained?

Recent Studies

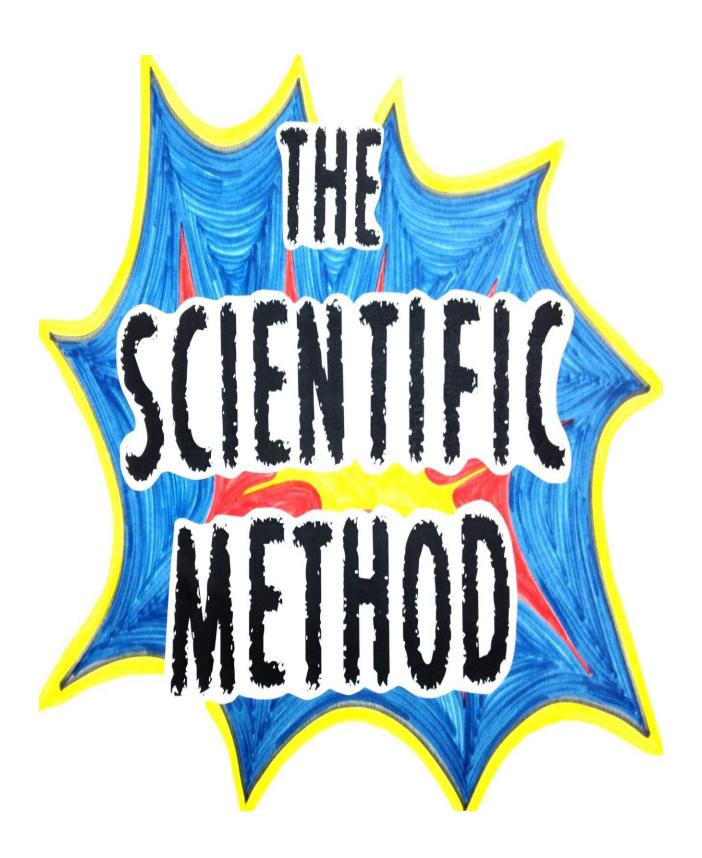


Many recent studies about the water content on fruits have been held. The fruits provide healthy life style to our bodies in all the way right from providing the minerals and water content as well.

EXPERIMENTATION:

MATERIALS:

S.No	Annual Fruits	
1	Apple	
2	Banana	
3	Pomegranate	
4	Papaya	
5	Digital weighing Machine	
6	Micro-wave	



OBSERVATIONS:

1. Take the annual fruits (Apple, Banana, Papaya, Pomegranate) and weigh them using digital weighing machine and note the values as W_1 .

Banana $W_1=0.115$ gms

Apple $W_1=0.82$ gms

Papaya $W_1=0.531$ gms

Pomegranate W_1 =0.84gms

Table-1

S.No.	Fruit name	Weight of wet sample[W ₁]in gms
1.	Banana	0.115 gms
2.	Apple	0.82 gms
3.	Papaya	0.531 gms
4.	Pomegranate	0.84 ms

- 1. Now keep each fruit in microwave oven for 10 minutes at medium temperature to remove the water content from the fruit and note the value as weight W_2 .
 - Banana W2=0.105 gms
 - Apple W2=0.140gms
 - Papaya W2=0.158gms
 - Pomegranate W2=0.185gms

Table-2

S.No.	Fruit name	Weight of wet sample[W ₂]in gms
1.	Banana	0.105 gms
2.	Apple	0.140gms
3.	Papaya	0.158 gms
4.	Pomegranate	0.185gms



RESULT AND DISCUSSION

Formula

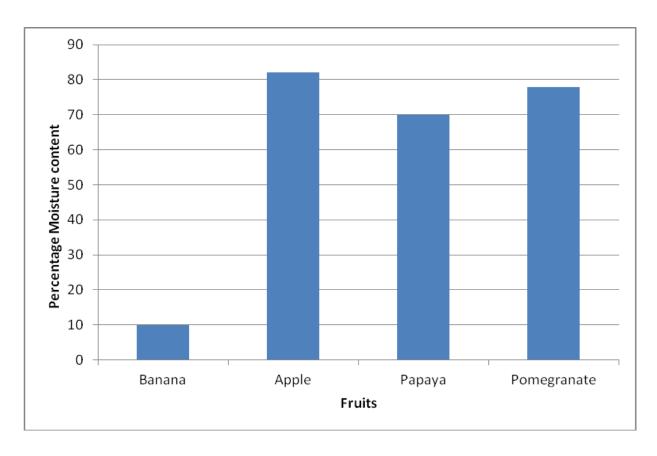
To know water content in fruits

Moisture content = Initial weight
$$(W_1)$$
 - Final weight (W_2) X 100
Initial weight (w_1)

 W_1 = Weight of wet sample.

 W_2 = Weight of dry sample.

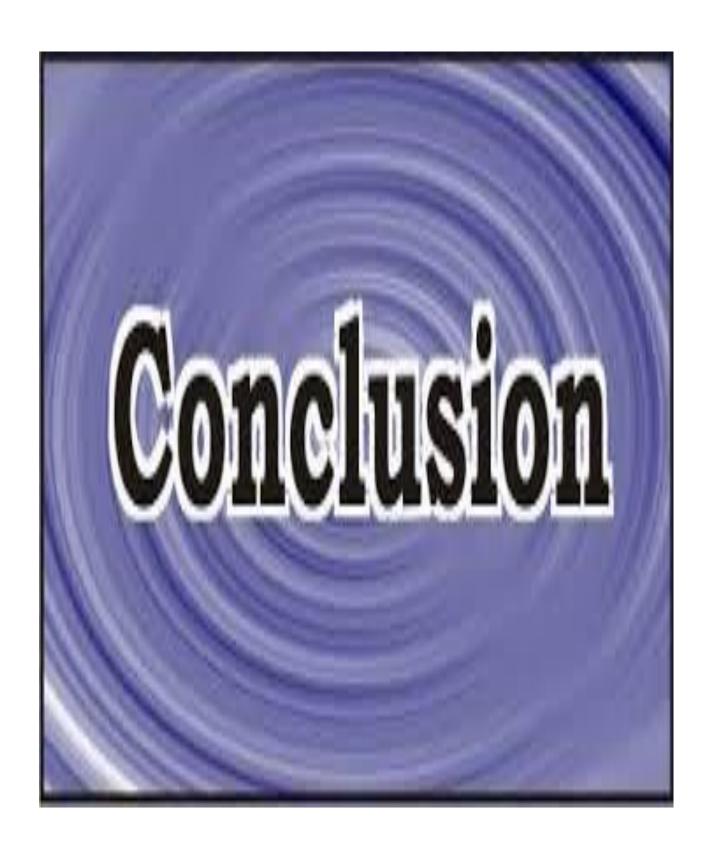
S.No	Fruits Name	Wt of wet	Wt. of wet	$MC = W1-W2 X \ 100$
		sample (W ₁)	sample (W2)	W1
		gms	gms	
1.	Banana	0.120	0.110	10
2.	Apple	0.82	0.140	82
3.	Papaya	0531	0.158	70
4	Pomegranate	0.84	0.185	78



RESULT:

Apple has more water content and compared with other Annual Fruits.

(Banana, Pomegranete, Papaya)



CONCLUSION:

I conclude that though some fruits are not available throughout the year we can hydrate our body by consuming Annual Fruits with more water content i.e., Apple.

APPLICATION:

- 1. Easily Available throughout the year
- 2. Common type of annual fruit
- 3. hydrates the body.

ABBREVIATIONS

Moisture content

Global warming

Dehydration

Annual Fruits

Digital Weighing machine

Microwave

REFERENCE:

https://wasatchgardens.org/events/plant-sale/annual-seedlings-list

forums.gardenweb.com > Garden Forums > Fruit & OrchardsOct 12, 2009 -

https://wasatchgardens.org/events/plant-sale/annual-seedlings-list

www.themulch.com/plant.../annual-fruits-a-vegetables-southern-californi.

#######

ACKNOWLEDGEMENT

I Bushra Khanam, thank Almighty, for the blessing showered on us in every step of this venture.

I am very much grateful to my SCIENCE DEPARTMENT, MS CREATIVE HIGH SCHOOL, Hyderabad, Telangana. Under whose active guidance and constant supervision this project "REJUVENATE YOUR BODY WITH FRUITS" has been carried out. They were a source of continuous inspiration to us and this project would not have been successful without their creative guidance and support.

I owe a deep depth of gratitude to M.S.Creative High School Directors specially **Mr. Syed Misbahuddin** and my Principal **Mrs. Syed Afroze Banu** for their co-operation, supervision and for providing all the resources to complete this project successfully.

It is a great pleasure to express my sincere thanks to the teaching and non-teaching staff of the M.S.Creative School for their valuable support.

I am grate to my parents and friends for their relentless support and thankful to all the people who are responsible to make this project.