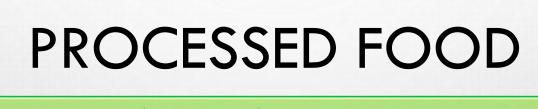


### YOUTH LEADERSHIP PROGRAM 2022-2023

BY 5C STUDENTS

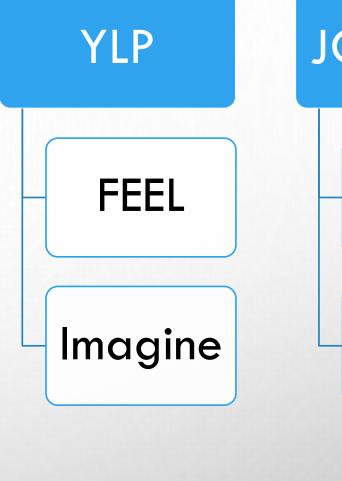


-FORGET THE JUNK HYPE ONLY EAT FOOD THAT IS FRESH AND RIPE



#### DIVIDED INTO FOUR SUB ZONES

- FEEL-LETS TALK ABOUT WHAT THEY ARE!
- IMAGINE: THE KIND OF HEALTH EFFECTS WE HAVE! HOW ARE THEY DIGESTED? OR ABOUT PRESERVATIVES
- DO: TALKING ABOUT THE DIGESTION OCCURRING IN OUR BODY AND HOW FAT IS BEING ACCUMULATED/CREATING POSTERS/MODELS.
- SHARE SURVEY / HOW CAN WE STOP / SHARING OUR IDEAS IN DISCUSSION/STARTED WITH CLASS.



JOURNEY **SHARE** 

# 



## LETS CHECK ON WHAT ARE THEY! HIBA AUDIO



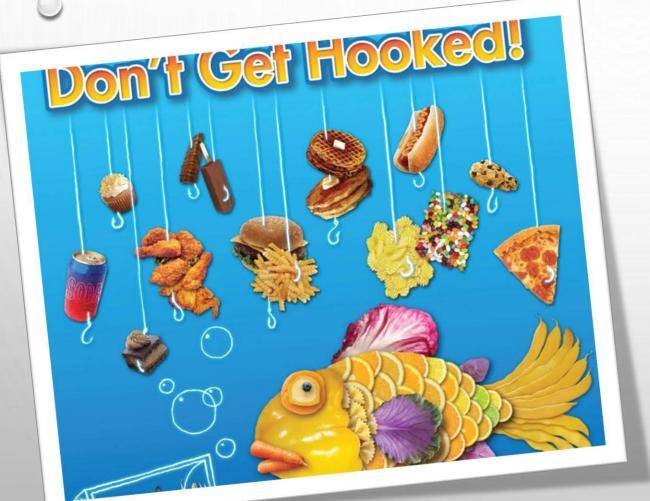
#### What is Processed Food?



- Any deliberate change in food that occurs before it is available for us to eat.
- Most foods that we eat are processed in some ways .
- Transformation of raw ingredients by physical and chemical means in to food or of food in to other forms



# WHAT ARE ULTRA PROCESSED FOOD HOW IT IS DIFFERENT FROM PROCESSED FOOD? ZAISHA FATIMA





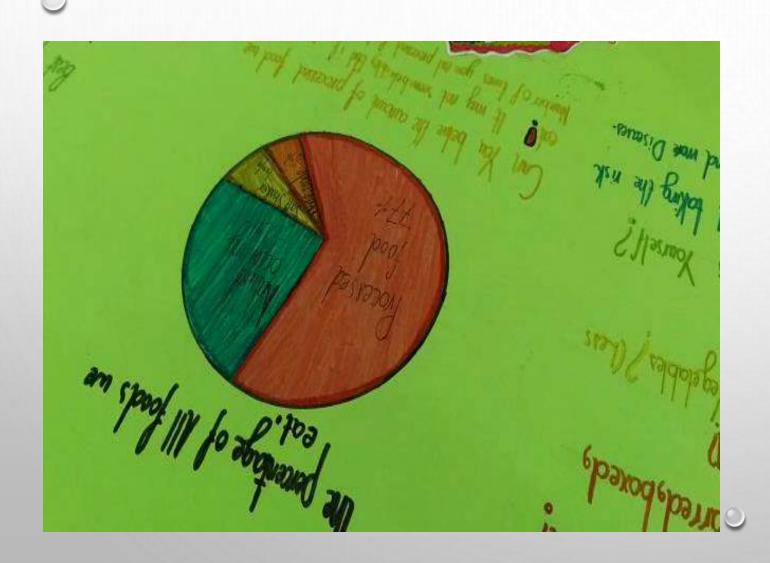
Hello everyone! My name is Zaisha. I am from class 5C.

Today I am here to tell you about What is ultra-processed food. These foods go through multiple processes (extrusion, moulding, milling, etc.), contain many added ingredients and are highly manipulated. Examples are soft drinks, chips, chocolate, candy, ice-cream, sweetened breakfast cereals, packaged soups, chicken nuggets, hotdogs, fries and more.

So, ask yourself a question What is the shelf life of hornernade cookies? 2-3 weeks max kept out side the fridge then how it is since it has chemicals extend their shelf life but reduce yours.

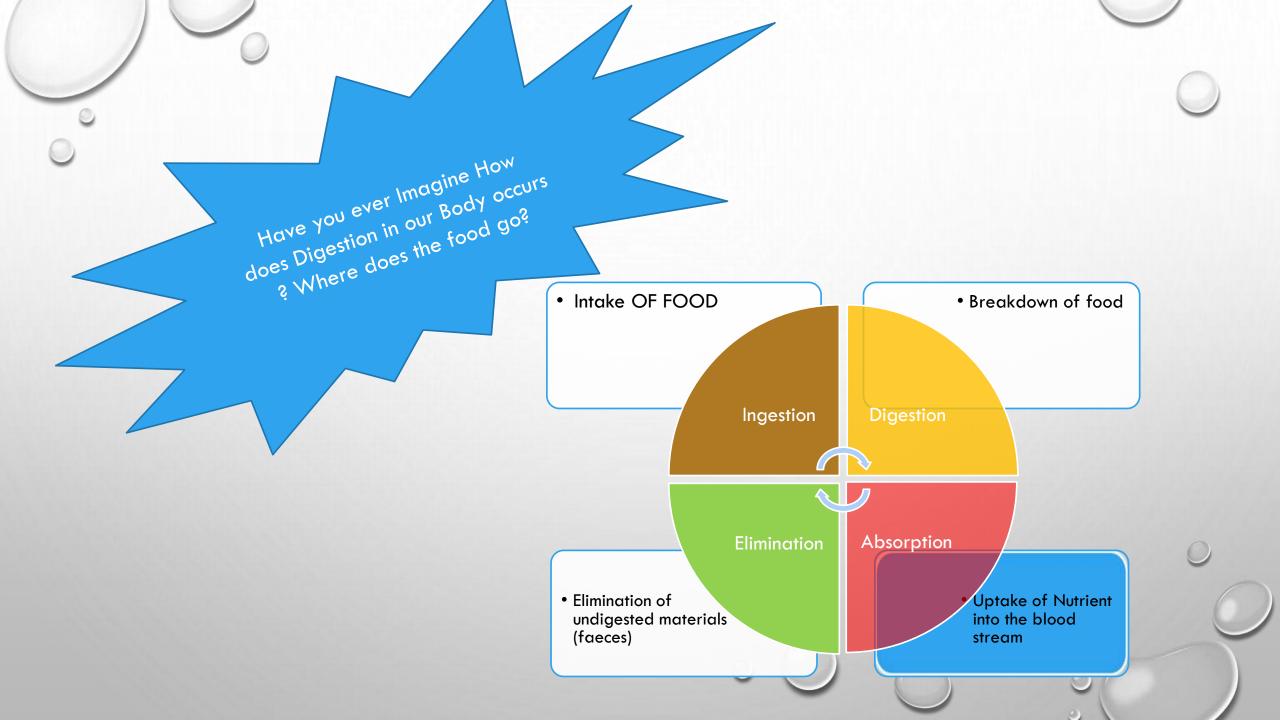
You might be wondering what is the difference between processed food and ultra-processed food? Processed food with added salt, canned fruit with added sugar and reserved with salt. And ultra-processed foods can have added salts, salts, and preservatives that add no nutritional

#### WHY PEOPLE LOVE EATING PROCESSED FOOD?



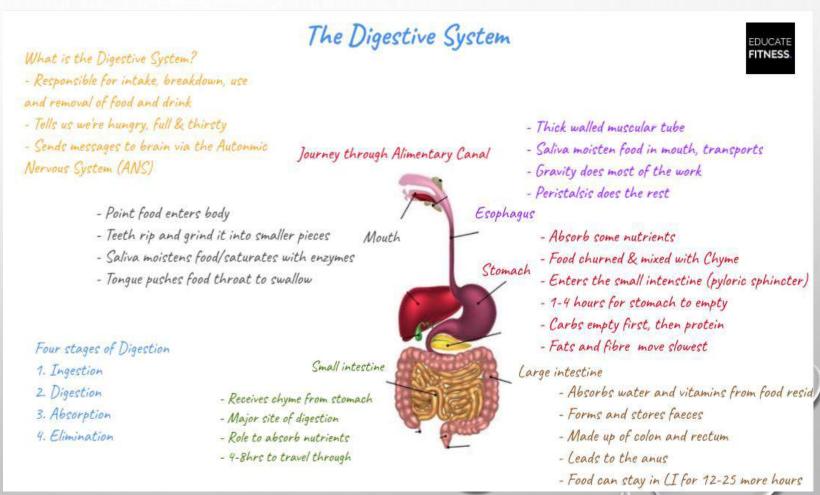
Unfortunately, PFs tend to be cheaper than fresh food, last longer, and some can be more appealing due to their high sugar content. UPF's make up nearly 90% of the energy we get from added sugars.

# 



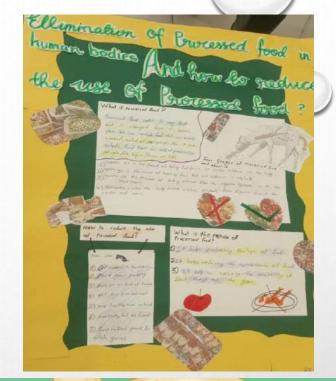


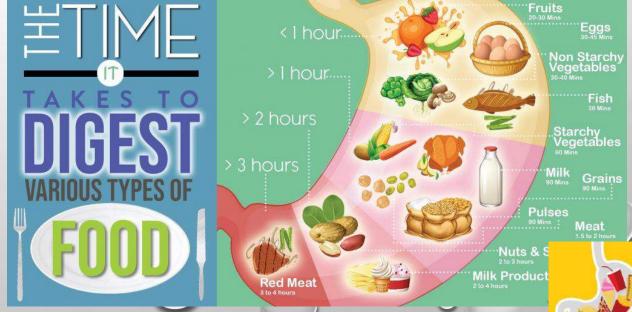
# Lets talk about 4 Stages here



#### **DIGESTION AND INGESTION**





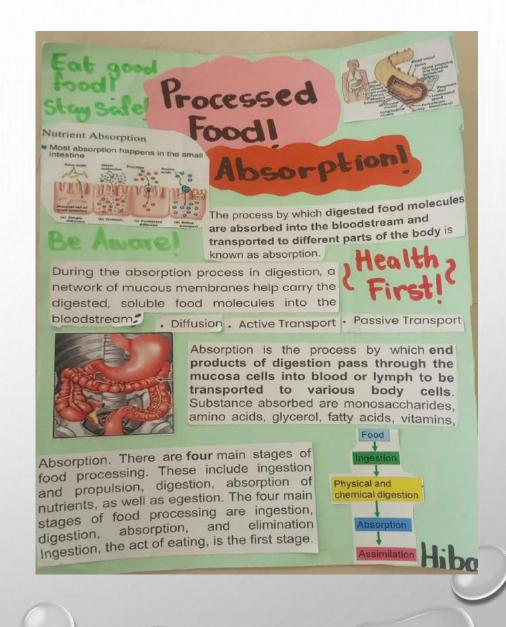


BY HAFSAH FATIMA

#### ABSORPTION AND ELIMINATION

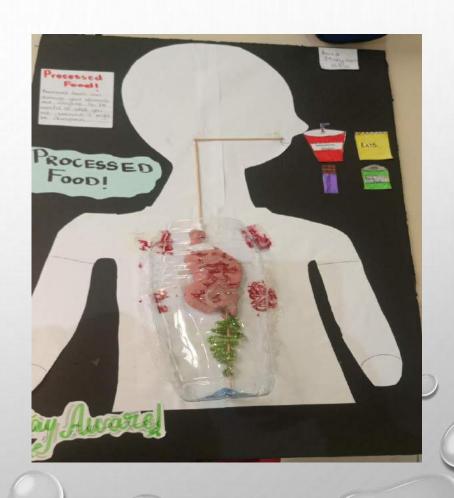


Hiba Explaining



#### **MODEL 1 WITH PROCESS EXPLANATION**

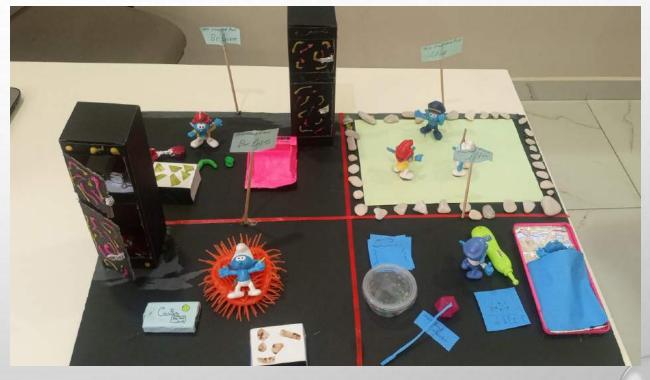




Hiba, Aaiza, Maryam

#### **MODEL 2- BEFORE & AFTER EXPLANATION**





#### RESEARCH-ON COOKED FOOD /INSTANT NOODLES

WE ALSO CONTACTED DR YOGESH HARWANI, A GASTROENTEROLOGIST AT NOBLE GASTRO HOSPITAL, AHMEDABAD. "THIS VIDEO SHOWS SMALL INTESTINE OBSTRUCTION DUE TO WORMS. THIS INFECTION OCCURS MAXIMUM IN DEVELOPING NATIONS. USUALLY, HUMANS GET INFECTED BY EATING UNCOOKED FOOD OR CHILDREN GET INFECTED AFTER PLAYING IN CONTAMINATED SOIL. WORMS CAN LEAD TO INTESTINAL OBSTRUCTION, BLOOD LOSS AND SEVERE ABDOMINAL PAIN," HE

SAID.

RESEARCH-ON COOKED FOOD /INSTANT E ALSO CONTACTED DR YOGESH HARWANI, A GASTROENTEROLOGIST AT NOBLE GASTRO AMINATED SOIL WORMS CAN LEAD TO INTESTINAL OBSTRUCTION, BLOOD LO

**IMAGE OF SCREENSHOT** ROUNDWORMS FROM VIDEO

tnews.in/video-of-surgicallyextracted-intestinal-wormsfalsely-claimed-asundigested-noodles/

## A CASE STUDY ON PROCESSED FOOD AT NIDDK -RESEARCH

- PEOPLE EATING ULTRA-PROCESSED FOODS ATE MORE CALORIES AND GAINED MORE WEIGHT THAN WHEN THEY ATE A MINIMALLY PROCESSED DIET, ACCORDING TO RESULTS FROM A NATIONAL INSTITUTES OF HEALTH STUDY. THE DIFFERENCE OCCURRED EVEN THOUGH MEALS PROVIDED TO THE VOLUNTEERS IN BOTH THE ULTRA-PROCESSED AND MINIMALLY PROCESSED DIETS HAD THE SAME NUMBER OF CALORIES AND MACRONUTRIENTS. THE RESULTS WERE PUBLISHED IN CELL METABOLISM (LINK IS EXTERNAL).
- THIS SMALL-SCALE STUDY OF 20 ADULT VOLUNTEERS, CONDUCTED BY
  RESEARCHERS AT THE NIH'S NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE
  AND KIDNEY DISEASES (NIDDK), IS THE FIRST RANDOMIZED CONTROLLED TRIAL
  EXAMINING THE EFFECTS OF ULTRA-PROCESSED FOODS AS DEFINED BY THE NOVA
  CLASSIFICATION SYSTEM. THIS SYSTEM CONSIDERS FOODS "ULTRA-PROCESSED" IF
  THEY HAVE INGREDIENTS PREDOMINANTLY FOUND IN INDUSTRIAL FOOD
  MANUFACTURING, SUCH AS HYDROGENATED OILS, HIGH-FRUCTOSE CORN
  SYRUP, FLAVORING AGENTS, AND EMULSIFIERS.
- RESULT OF RESEARCH
- OVER TIME, EXTRA CALORIES ADD UP, AND THAT EXTRA WEIGHT CAN LEAD TO SERIOUS HEALTH CONDITIONS," SAID NIDDK DIRECTOR GRIFFIN P. RODGERS, M.D. "RESEARCH LIKE THIS IS AN IMPORTANT PART OF UNDERSTANDING THE ROLE OF NUTRITION IN HEALTH AND MAY ALSO HELP PEOPLE IDENTIFY FOODS THAT ARE BOTH NUTRITIOUS AND ACCESSIBLE HELPING PEOPLE STAY HEALTHY FOR THE LONG TERM."

- HEART RATE INCREASES
- Blood Pressure Issues
- BMI INCREASES
- DIABETES
- BODY WEIGHT INCREASES
- Food Craving/LAziness

## NO PROCESSED **FOOD TRAIL WAS CONDUCTED ON COLLIN AND MICHAEL** FOR 7 DAYS.

#### RESULTS ARE MENTIONED BELOW.

Collin			Michael		
Before	After		Before	After	
20.7	20.4	BMI	23.3	22.7	
140	138	Weight (lbs)	174	170	
11	9	Body Fat %	14	14	
30	30	Waist Size (in)	34	34	
30	29	Belly Size (in)	34	34	
88	80	Heart Rate	64	52	

#### TRIAL DESCRIPTION WITH RESULTS

Changing your diet this drastically is NO joke! During this 30 day challenge to become perfectly healthy, we ate no processed foods for 7 days and we're going to tell you about it. This includes no sugar, which is probably the most difficult part of this diet; see how we did it!

#### SOLUTIONS or RECOMMENDATIONS

- Eating processed foods on occasion is fine.
- However, look for hidden sugar, fat and salt, especially those added during processing.
- Most Nutrition Facts labels now include added sugars.
- Dietary Guidelines for Americans recommends getting less than 10% of total calories from added sugars.





#### Processing involves:

- Cleaning, peeling, heating
- Cooling, freezing
- Canning
- Fermenting
- Mincing
- Emulsification
- Drying
- Packaging



Aaiza Shah



#### PRESERVATIVES USED

PROPANOIC ACID:

Propanoic acid is a naturally occurring carboxylic acid with chemical formula CH3CH2COOH. It is a clear liquid with a pungent odor. The anion CH3CH2COO- as well as the salts and esters of propanoic acid are known as propanoates.

Formula: C<sub>3</sub>H<sub>6</sub>O<sub>2</sub> Density: 990.00 kg /m<sup>3</sup> Boiling point: 141 °C

Molar mass: 74.07854 g/mol IUPAC ID: propanoic acid Melting point: -21 °C

#### TOPS MANGO PICKLES Calorific Value 149.0 Kcal 63 Kcal Calories From Fat (UNIT OF ENERGY) Per 100g (approx.) Total Fat(MACRO) Saturated Fat (INCREASE HEART DISEASE) Cholesterol(LIPID FAT) Polyunsaturated Fatty Acid 2.27 q Monounsaturated Fatty Acid 3.92 q Trans Fatty Acid Protein (NX6.25) (MACRO) 1.49 20.2 a Carbohydrates (MACRO) Sodium (MACRO) 5850 mg Vitamin A(MICRO) 1726,2 uq Vitamin C(MICRO) 0.72 mg

#### PEPSI: NUTRITION FACTS



Learn about serving sizes.	8 fl oz	%DV	20 fl oz	%DV
Calories	100	- 8	250	
Total Fat (g)- MICRO	0	0	0	0
Sodium (mg)- MACRO	20	1	55	2
Total Carbs (g)- MACRO	28	9	69	23
Sugars (g)- MACRO	28		69	
Protein (g)- MICRO	0	7.	0	-

#### PRESERVATIVES USED

SODIUM BENZOATE:

Sodium benzoate has the chemical formula
NaC7H5O2; it is a widely used food preservative, with
E number E211. It is the sodium salt of benzoic acid
and exists in this form when dissolved in water.

Melting point: 300 °C

Molar mass: 144.11 g/mol

Density: 1.50 g/cm<sup>3</sup>

#### PRESERVATIVES USED

The preservative added to the pickle are SALT ,VINEGAR, OIL & SUGAR if you want to keep it for long time as they disconnect the contact btw air and food product, sugar & salt consume water which a food product contains so it acts as a good preservative but should not be added in extreme which spoils the pickle's taste.

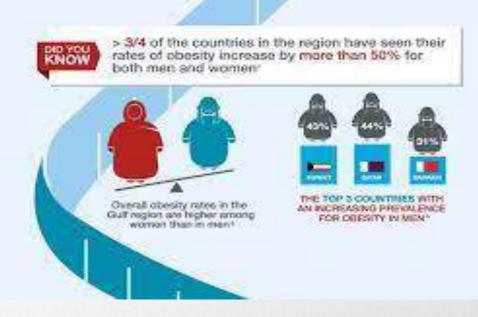
SODIUM BICARBONATE is also used as a preservative in pickles.

#### QATAR IDENTITY - OBESITY

OVERWEIGHT AND OBESITY ARE DEFINED AS ABNORMAL OR EXCESSIVE FAT ACCUMULATION THAT PRESENTS A RISK TO HEALTH

RESULTS: OVERWEIGHT AND
 OBESITY PREVALENCE WAS
 44.8% ANCX D 40.4%
 AMONG MALES AND FEMALES
 AND 45.6% AND
 40.9% AMONG QATARI AND
 NON-QATARI STUDENTS,
 RESPECTIVELY





Qatar is a peninsula in the Middle East that has a population of approximately 2.6 million people, of whom about 12% are indigenous. The country has progressed from an economy initially based on pearl diving and fishing to become one of the largest liquid natural gas exporters in the world and is among the top ten countries for gross national income per capita. Increasingly, revenues from natural energy resources have been channeled towards extensive modernization and development programs. Rapid modernization, however, as in Qatar's neighboring Arab countries, has been accompanied by an increasing prevalence of obesity and its cardio metabolic complications.



#### **HEALTH RISK-MARYAM**

#### Processed Food - Health Risks Processed foods are HIGHLY ADDICTIVE and make you Food processing removes some of crave them frequently the nutrients, vitamins and fiber present in the food Some processed dairy products, dried fruits etc. contains Sulphite which causes a range of health Cheap artificial sugars, salt and preservatives In processed foods have less fibre quantity & diseases like headarths, skin rashes, writable bowd don't add any nutrition benefits, it slows cyndrome etc. down digestion. Processed food kills natural taste and colour o The salts, phosphates and other artificial ingredients in the processed food leads to kidney foods. In order to restore the natural flavou nanufactures add cheap artificial sugar, salts, fat colours and preservatives that creat and other health problems GASTROINTESTINAL problems, HORMONAL Problems, NERVOUS SYSTEM problems at Frequent consumption of processed foods can lead to hormonal Proguent concumption of processed food can also problems like menstrual irregularities, Inad to nervous system problems like premerstrual syndrome, infertility, depression, irritability and inability to thyreid dysfunction etc. concentrate. OLDDON'TWEEK

#### PWHY NOT THESE? Food

A The following are the disadvantages of using processed food items:

- 1. Processed food-stuffs often lose nutrients.
- 2. It results in loss of iron and vitamin B.
- 3. There is loss in weight and nutrients.
- 4. The original taste changes to some extent.









#### HARMFUL EFFECT OF EATING PROCESSED FOOD

 Preservatives in foods are designed to prevent bacteria growth and spoilage, but sometimes they can also prevent you from enjoying good health. While the effects of food preservatives on the body can vary with age and health status, looking into the potential harmful effects of preservatives in foods may help you reclaim good health and protect your personal well-being against toxic damage.

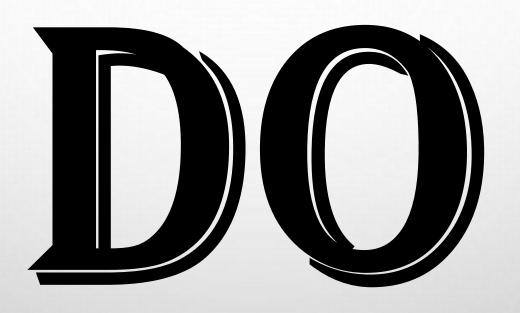
#### HEART DAMAGE

Studies of heart tissue reviewed by InChem have showed that food preservatives can weaken heart tissues. According to laboratory research, rats who consumed the highest levels of food preservatives showed the highest levels of heart damage over time.

#### CANCER

One of the most serious harmful effects of preservatives in foods is their ability to transform into carcinogens when digested. According to InChem, nitrosamines, which include nitrites and nitrates, interact with stomach and gastric acids to form cancer-causing agents.

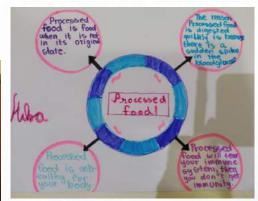
















### Processed Food!

What is Processed food? Processed foods are foods that are not in there original state like they are been, cut, frozen, packet, or canned.

How is Processed food harmful?
Processed foods ore unhealthy and they can cause diseases in your body without you even knowing.

What can hocessed foods do? Processed foods can cause diseases like, diabetes, cancer and etc

How is Processed foods digested? There are 4 main slages which are Ingestion, digestion, absorption, and etimination.



Is In

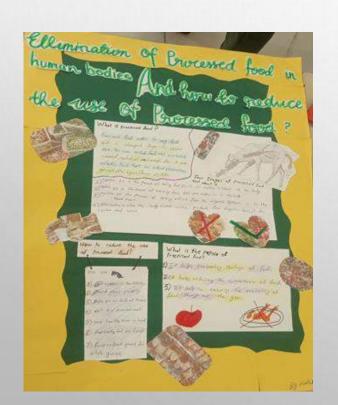
Danger!

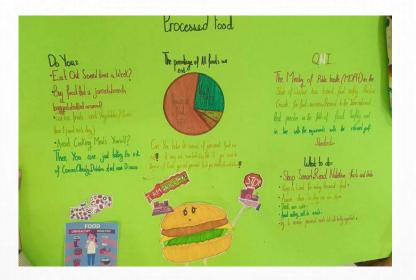
Stay Awarel

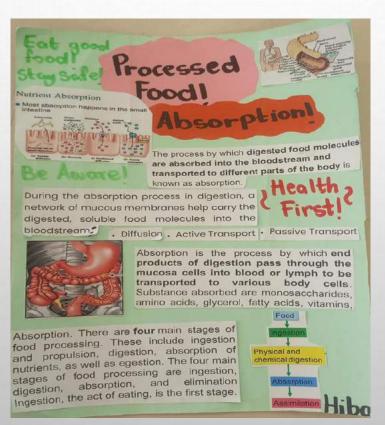


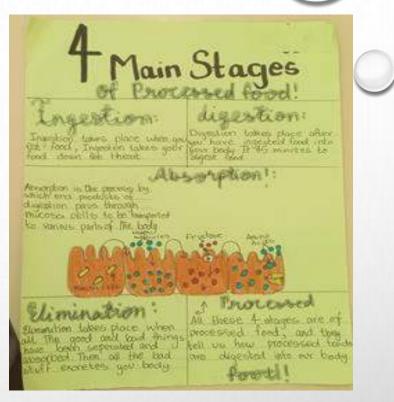








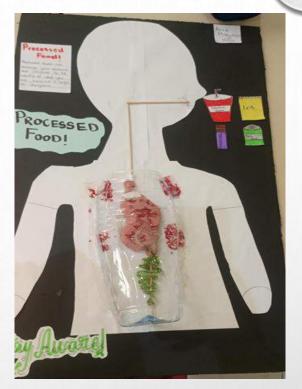






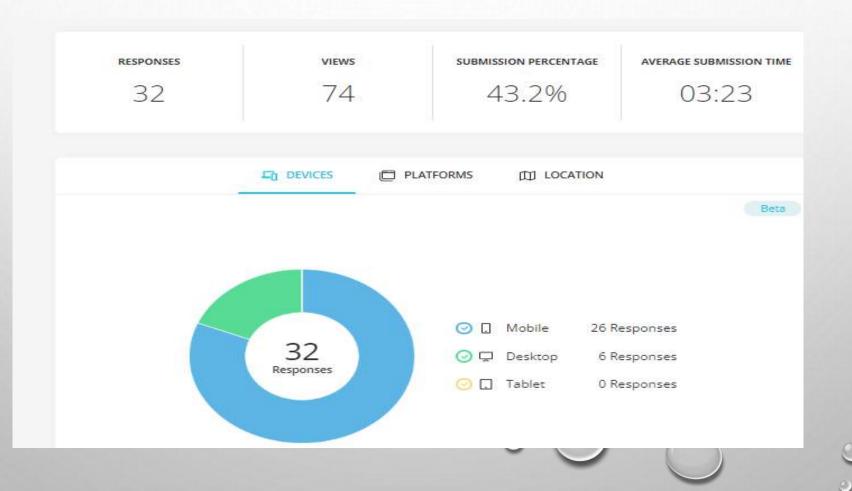




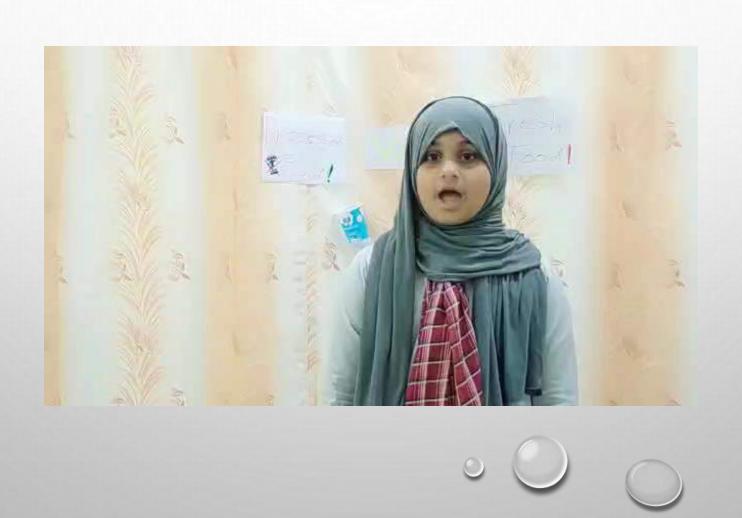


# SHARE

## SURVEY AMONG STUDENTS & TEACHERS WAS CONDUCTED







# AFSHEEN ASKING TAHREEM QUESTION REGARDING PROCESSED FOOD.

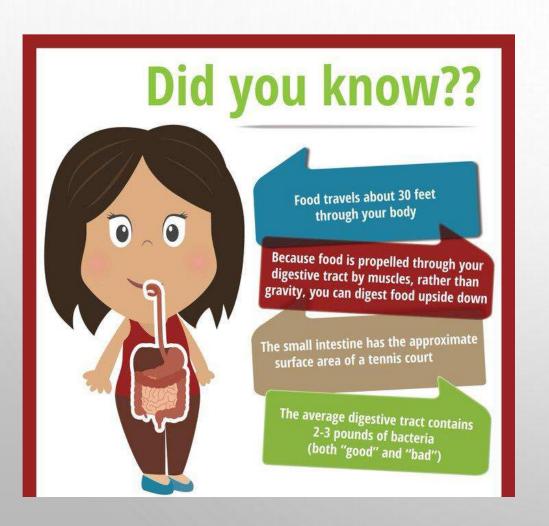


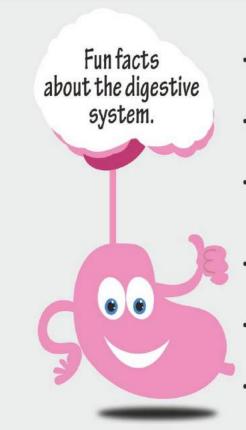


#### HIBA MOTHER VIDEO



#### FUNNY FACTS TO CHECK ON!

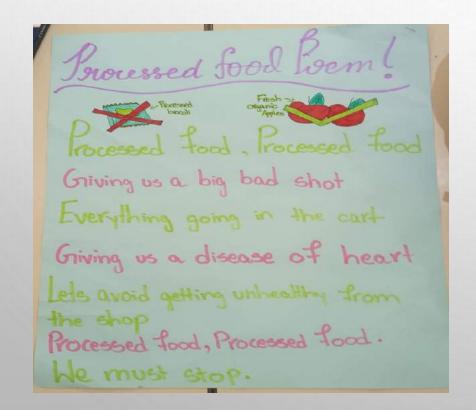




- The average person produces 2 pints of saliva every day.
   That is 32 ounces, or 2 cans of soda.
- The second part of your small intestine is called the jejunum.
   That's just fun to say!
- Your body can move your food through the digestive system even while you are standing on your head. It is not connected to gravity because it works with muscles.
- Ever wonder why it smells bad when you pass gas? It is because it is produced by fermented bacteria and then mixed with air.
- Aerobic exercise is the best type of exercise to keep your digestive tract in shape.
- The longest attack of constant hiccups lasted 68 years.

#### PROCESSED PROCESSED FOOD WE MUST STOP!

 LETS HEAR FROM OUR LEARNERS HOW TO STOP THROUGH A SHORT POEM







# THANK YOU FOR LISTENING ANY QUESTIONS?