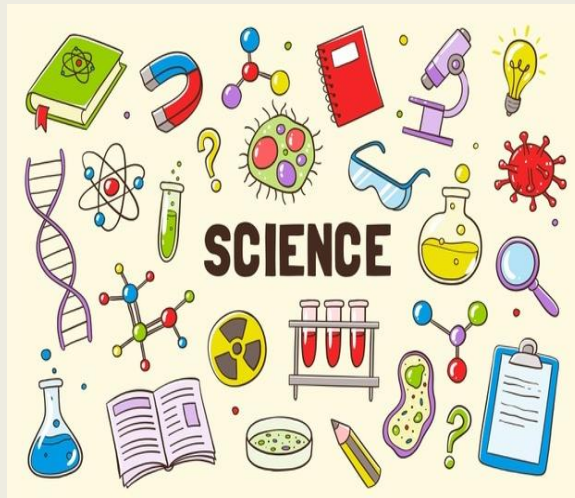


District Public School & college Depalpur

Summer vacation Task/ Assignment

First semester

(Session: 2020-21)



Subject: Science

CLASS: 4th

Student's name: _____

Roll no: _____

Section: _____

Guideline for parents:

- The designed summer pack or booklet is fortnightly.
- The students will have to follow the syllabus breakup given below.
- The whole summer pack is designed on the same pattern.
- First day students understand regarding lesson (via text and video lectures).
- Very next day he/she is assigned a task related to previous lecture.
- Video lectures are given for each topic to enable the students understand the lesson more clearly.
- Parents should ensure the timely completion of assigned task on each day.

Table of contents:

| Date | Topics | Tutor web links |
|------------|---------------------|--|
| 18-06-2020 | COVID-19 | https://www.youtube.com/watch?v=fPbYaTKKtmA |
| 19-06-2020 | What the brain does | https://www.youtube.com/watch?v=xrlf5KUvvl&feature=youtu.be |
| 23-06-2020 | What the heart does | https://www.youtube.com/watch?v=WN9KmcH9JO4 https://www.youtube.com/watch?v=PnD8KCNurs |
| 25-06-2020 | What the lungs do | https://www.youtube.com/watch?v=ltoIUJxmr-g |
| 27-06-2020 | Intestines | https://www.youtube.com/watch?v=UmZyxTCrukW |
| 30-06-2020 | Muscles | https://www.youtube.com/watch?v=OP4TAv8WmxY https://www.youtube.com/watch?v=1yiDmfpmDbs&feature=youtu.be |

Parents sign: _____

Date: 18th June, 2020

Day: Thursday

Covid-19

Topic: To make students aware of COVID-19

First understand this lecture from the Tutor web link given below.

Tutor web link:

<https://www.youtube.com/watch?v=fPbYaTKKtmA>

It's very clear that we have a widespread outbreak of COVID-19 and we all have to limit our movement and avoid gatherings to prevent spreading this further. We need to do a coordinated widespread community response in limiting and reduce the spread of the disease.

➤ **Symptoms of infection:**

Most common symptoms:

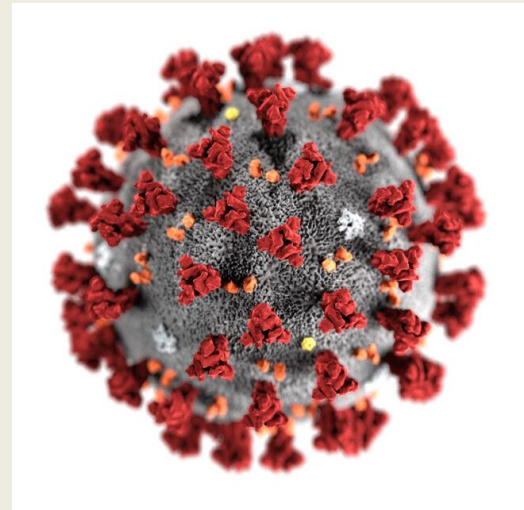
- Fever
- Dry cough
- Tiredness

Less common symptoms:

- Aches and pains
- Sore throat
- Diarrhea
- Conjunctivitis
- Headache
- Loss of taste or smell
- A rash on skin, or discoloration of fingers or toes

Serious symptoms:

- Difficulty breathing or shortness of breath
- Chest pain or pressure
- Loss of speech or movement



Parents sign: _____

➤ **Preventions:**

- keep social distance
- Do not drink cold water
- Do exercise
- Keep wearing gloves and mask
- Wash your hands regularly
- Stay home stay safe



Activity: Give answers of the following questions.

- What are the symptoms of COVID-19?

- How corona virus transmits in the body?

- Is there any vaccine against the novel corona virus?

- Is there any treatment for covid-19?

- Give preventive measures to avoid COVID-19.

- Explain how the social distancing is helpful to avoid the epidemic disease?

Parents sign: _____

Date: 19th June, 2020

Day: Friday

UNIT # 1 THE HUMAN BODY

Topic: What the brain does?

Book page:4-5

Tutor web link:

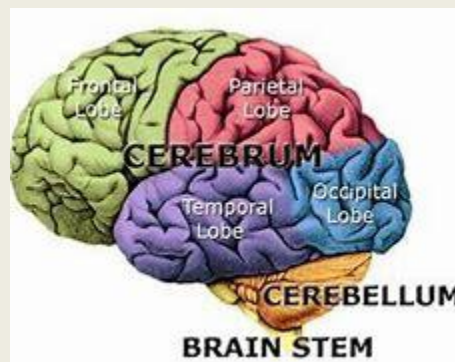
<https://www.youtube.com/watch?v=xrIf5KUv-vI&feature=youtu.be>

Understanding about human brain

- The brain is the part of the body's nervous system.
- It controls speech, thought, balance, movement, the senses, emotions, dreams, and all other body functions.
- The speed of sending the messages around the body (240mph) twice of the fastest animal cheetah (150mph)
- Your brain never rests even when you sleep.
- The cerebrum is the largest part of the brain. It has four parts.

Parts of human brain

- **Frontal lobe:** controls reasoning, emotion, planning, and problem solving.
- **Parietal lobe:** controls movement, recognition, and some senses.
- **Occipital lobe:** process what you see.
- **Temporal lobe:** controls memory, speech and what you hear.
- **Cerebellum:** controls balance and movement.
- **Brain stem:** links the brain to the rest part of brain.



The human brain

Parents sign: _____

Date: 20th June, 2020

Day: Saturday

UNIT # 1 THE HUMAN BODY

Assignment

Question 1: Answer the following question.

- What is the function of the following?
 - 1 The occipital lobe
 - 2 The temporal lobe
 - 3 The frontal lobe
 - 4 The parietal lobe

Answer: **The occipital lobe**

The occipital lobe processes what you see.

The temporal lobe

The temporal lobe controls memory and speech and processes what you hear.

The frontal lobe

The frontal lobe controls reasoning, planning, emotions, and problem solving.

The Parietal lobe

The parietal lobe controls movement, recognition, and some senses.

Ans: _____

Parents sign: _____

Date: 22nd June, 2020

Day: Monday

UNIT # 1 THE HUMAN BODY

Assignment

Question 1: Answer the following questions.

- **What is the speed of sending message from brain to other parts of body?**

Answer: The brain sends message around your body at more than 240mph.

Answer: _____

- **What is the function of cerebellum?**

Answer: The cerebellum controls balance and movement.

Answer: _____

- **What is the function of brain stem?**

Answer: The brain stem links the brain to the rest of the body.

Answer: _____

Question 2: Encircle the best answers.

- The brain is the part of _____.
a) Circulatory system b) nervous system c) digestive system d) muscular system
- The speed of message traveling from brain to other body parts _____.
a) 150mph b) 200mph c) 240mph d) 300mph

Question 3: Fill in the blanks.

- Cerebrum has _____ parts.
- _____ lobe processes what you see.

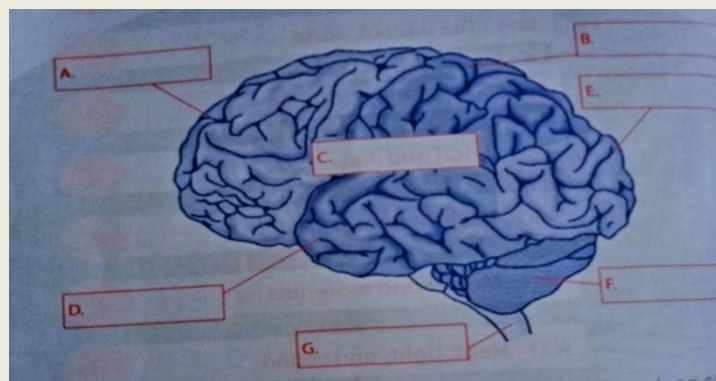
Parents sign: _____

Activity: Label the parts of brain. Write the function of each part.

Tutor web link:

The following web link will help to solve this activity.

https://www.youtube.com/watch?v=ZB2_5PDhdzc



A. _____

B. _____

C. _____

D. _____

E. _____

F. _____

G. _____

Key words :A-frontal lobe B-parietal lobe C-Cereberum D-Temporal lobe E-Occipital

lobe F-Cerebellum G-Brain stem

Parents sign: _____

Date:23rd June, 2020

Day: Tuesday

Topic:2 What the heart does

Book page: 6

Tutor web link:

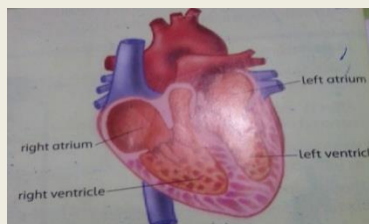
First understand this lecture from tutor web link given below.

<https://www.youtube.com/watch?v=WN9KmcH9JO4>

<https://www.youtube.com/watch?v=PnD8KCNurs>

Understanding about human heart

- The heart is a muscle.
- Its job is to pump blood around your body so, that oxygen reaches every part of your body.
- Oxygen is a gas that humans need to live and grow.
- Your heart is about the size of your fist.
- The average weight of woman's heart is **225g** and of man's **285g**.
- The human heart beats **37 million** times a year; **3million** times a month; **700,000** times a week; **100,000** times a day; **4200** times an hour; **70** times a minute; and **1** beat per second.
- Human heart has four chambers: the left atrium, the right atrium, the left ventricle, the right ventricle.
- Blood that is rich in oxygen flows from left atrium to left ventricle and then around the body.
- Blood without oxygen flows from the right atrium into the right ventricle and then lungs to get oxygen.



Parents sign: _____

Date: 24th June, 2020

Day : Wednesday

UNIT # 1 THE HUMAN BODY

Assignment

Question 1: Answer the following questions.

- **What is the job of heart?**

Answer: The job of the heart is to pump blood around your body.

Answer: _____

- **What is the weight of man and woman heart?**

Answer: The average weight of woman's heart is **225g** and of a man **285g**.

Answer: _____

- **Name the chambers of human heart?**

Answer: 1. Left atrium 2. Left ventricle 3. Right atrium 4. Right ventricle

Answer: _____

Question 2: Encircle the best option.

- Which gas is needed by human to live and grow?
a) Carbon dioxide b) oxygen c) nitrogen d) helium
- Human heart beats about _____ times a year.
a) 35 million b) 36million c) 37million d) 38million
- Which side of heart have oxygenated blood
a) Left b) right c) middle d) both a & b

Question 3: Fill in the blanks.

- The right _____ is the right chamber in the top right side of the heart.
- Blood with _____ is sent to the body.

Activity: Draw the diagram of human heart and label it.

Parents sign: _____

Date: 25th June, 2020

Day : Thursday

Topic 3: what the lungs do

Book page: 8

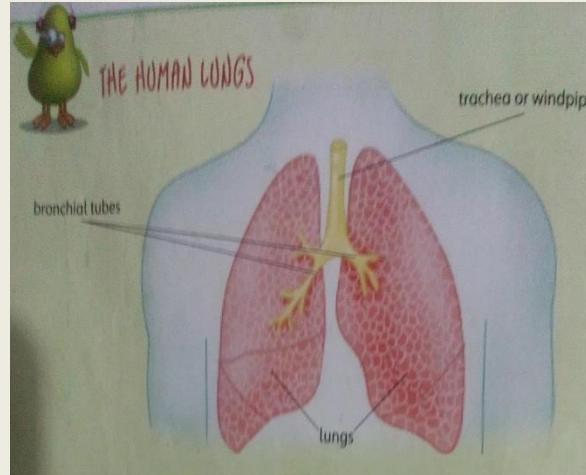
Tutor web link:

First understand this lecture from tutor web link given below.

<https://www.youtube.com/watch?v=ItoIUxmr-g>

Understanding about human lungs

- Lungs help to spread oxygen throughout the body and get rid of carbon dioxide that is harmful to the body.
- There are two lungs. They are positioned around the heart.
- Left lung is smaller than the right so that it fits neatly, because heart tilts to the left.
- The lungs and heart are protected by rib cage.
- Your lungs get a lot of use because you breathe in about **10,000** litres of air every day.
- When we breathe in our lungs get bigger to as they take in oxygen.
- When we breathe out we get rid of carbon dioxide that our body does not need.



The human lungs

Parents sign: _____

Date: 26th June, 2020

Day: Friday

Assignment

Question 1: Answer the following question.

- **What happens when you breathe in?**

Answer: when we breathe in our lungs get bigger as they take in oxygen from the air.

Answer: _____

- **What happens when you breathe out?**

Answer: when we breathe out we get rid of carbon dioxide that your body does not need.

Answer: _____

- **What is the position of human lungs?**

Answer: The human lungs are positioned around the heart.

Answer: _____

Question 2: Encircle the best option.

- Lungs help to spread _____
a) Carbon dioxide b) oxygen c) nitrogen d) helium
- _____ can be harmful to your body.
a) Carbon dioxide b) oxygen c) nitrogen d) helium
- There are _____ lungs.
a) 2 b) 3 c) 4 d) 5

Question 3: Fill in the blanks.

- Your lungs are protected by _____
- You breathe in about _____ litres of gas.

Activity: Draw and label the diagram of human lungs.

Parents sign: _____

Date: 27th June, 2020

Day : Saturday

Topic 4: Intestines

Book page: 9-10

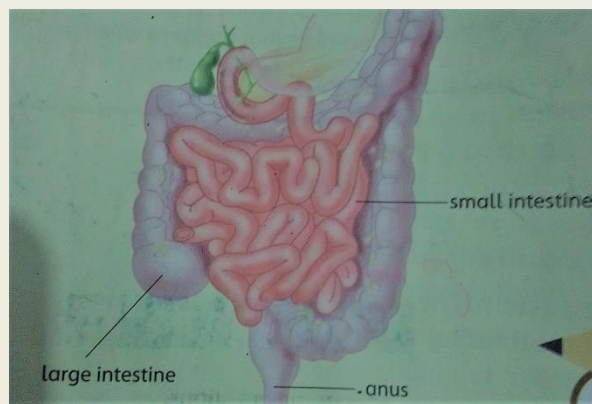
Tutor web link:

First understand this lecture from tutor web link given below.

<https://www.youtube.com/watch?v=UmZyxTCrukW>

Understanding about intestines

- Your intestines are part of digestive system.
- They help to digest the food that you eat and get rid of food that your body does not need.
- There are two intestines: 1. Small intestine 2. Large intestine
- The intestines are like tubes that are coiled up to fit inside your body.
- Your intestines are also known as bowels.
- Small intestine is **6m** long while large intestine is **1m** long.
- Intestines take food from stomach and digest the food and then transport the waste food to the anus.



Intestines

Parents sign: _____

Date: 29th June, 2020

Day: Monday

Assignment

Question 1: Answer the following questions.

- **What is another name of your intestines?**

Answer: The other name for intestines is bowels.

Answer: _____

- **What is the length of small intestine?**

Answer: The length of small intestine is 6m.

Answer: _____

- **What is the role of intestines?**

Answer: They help to digest the food you eat and get rid of food that your body does not need.

Answer: _____

Question 2: Encircle the best option.

- Your intestine is the part of your _____
a) Nervous system b) circulatory system c) digestive system d) muscular system
- The small intestine is about _____ long.
a) 4m b) 6m c) 8m d) 10m

Question 3: Fill in the blanks.

- The intestines transported waste food to your _____.
- The large intestine is _____ long.

Activity: Draw and label the diagram of the human intestines.

Parents sign: _____

Date:30th June, 2020

Day: Tuesday

Topic 5: Muscles

Book page: 10-11

Tutor web link:

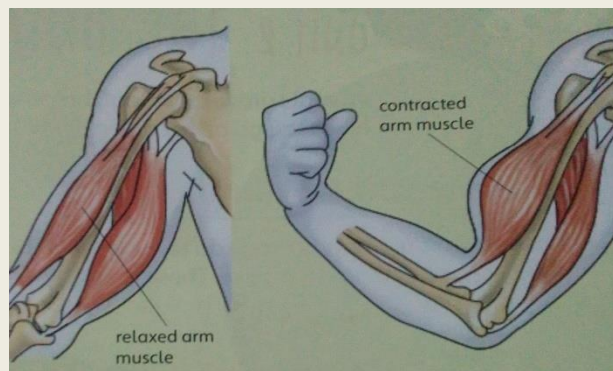
First understand this lecture from tutor web link given below.

<https://www.youtube.com/watch?v=OP4TAv8WmxY>

<https://www.youtube.com/watch?v=1yiDmfpmDbs&feature=youtu.be>

Understanding about muscles

- Human body has more than **600** muscles.
- Muscles help you to move things around your body.
- Your heart is muscle. It moves blood around your body.
- Exercising muscles help to grow and giving you more strength.
- It takes **17** muscles to smile and **43** muscles to frown.
- Muscles work by contracting and relaxing. Contracting means shorter and relaxing means longer.
- Muscles know when to contract and relax because the brain send message them.



Parents sign: _____

Date: 01st July, 2020

Day: Wednesday

Assignment

Question 1: Answer the following questions.

- **What is the function of your muscles?**

Answer: Muscles help you to move. They also help to move things around your body.

Example: your heart is a muscle it moves blood around your body.

Answer: _____

- **How do muscles work to bring about movement in your body?**

Answer: Muscles work by contracting and relaxing.

Contracting mean they get shorter and relaxing mean they get longer.

As they move in this way, they move the body.

Answer: _____

Question 2: Encircle the best option.

1. There are _____ muscles.
a) 400 b) 500 c) 600 d) 800
2. It takes _____ muscles to smile.
a) 16 b) 17 c) 18 d) 20

Question 3: Fill in the blanks.

1. It takes _____ muscles to frown.
2. Relaxing means _____.
3. Your muscles help you to _____.

Activity : Draw the diagram to show how your arm muscles work

- A) When they contract. B) when they expand**

Parents sign: _____

Date: 02nd July, 2020

Day: Thursday

Topic 6: Questions /Answers

Tutor web link:

First understand this lecture from tutor web link given below.

<https://www.youtube.com/watch?v=IWayUR6UyE4>

- **What do the following body organs do?**

A)brain. B) heart. C) lungs

- Answer: **Brain:**

Your brain sends messages around the body so that all the parts of your body know what to do and when to do them.

Heart:

Your heart is divided into four chambers. Heart pumps blood around your body.

Lungs:

When you breathe in your lungs get bigger as they take in oxygen.

When you breathe out, you get rid of carbon dioxide that your body does not need.

Answer: _____

- **Name the organ that controls the activities of your heart, lungs, muscles, and intestines.**

Answer: The brain

Answer: _____

Parents sign: _____

Date: 3rd July, 2020

Day: Friday

Topic 6 : workpage

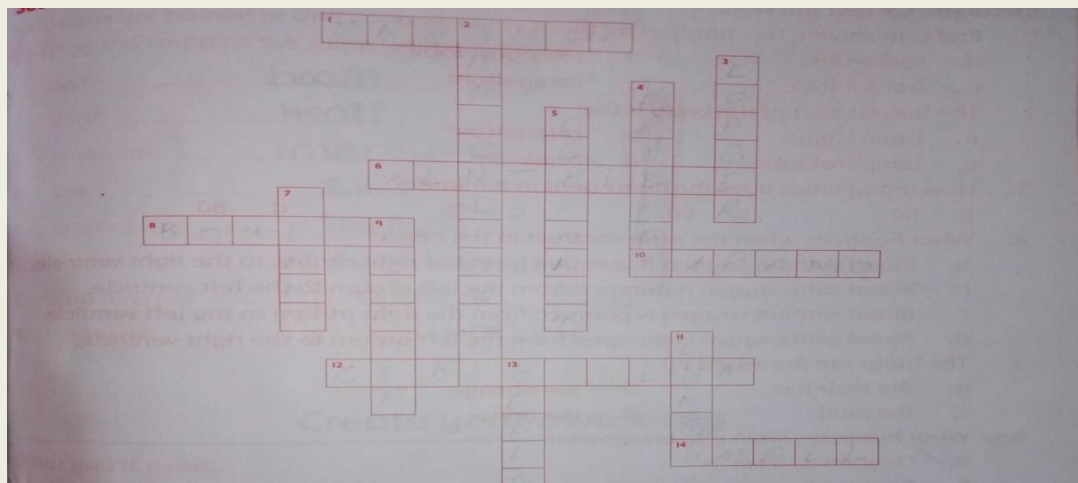
Tutor web link:

First understand this lecture from tutor web link given below.

https://www.youtube.com/watch?v=ZK_zKe8tOcm

<https://www.youtube.com/watch?v=sPXh9LWIYEO>

Question 1: Solve the cross puzzle.



Across

1. This is another name for windpipe.
6. Blood without oxygen is pumped from the left atrium into the left _____.
8. Another name for intestines is _____.
10. Your lungs _____ when you breathe in.
12. This part of the brain controls balance and movement.
14. The _____ intestine is the longer of the two.

Down

2. This gas is removed from the body through the lungs.
3. Relaxed muscles are _____.
4. This protects the heart and the lungs.
5. This is the largest part of the brain.
7. This organ is divided into four chambers.
9. Contracted muscles are _____.
11. These organs are positioned around the heart.
13. This organ is part of the nervous system.

Encircle the best option.

- Problem solving is controlled by the:
a) Cerebrum b) temporal lobe c) frontal lobe d) cerebellum
- The largest part of the brain is the :
a) Brain stem b) cerebellum c) temporal lobe d) cerebrum
- How many times does the heart beat in a minute?
a) 50 b) 60 c) 70 d) 80
- What happens when the atria contract in the heart?

Parents sign: _____

- a) Blood without oxygen is pumped from the right atrium to the right ventricle.
- b) Blood with oxygen is pumped from the left atrium to the left ventricle.
- c) Blood without oxygen is pumped from the right atrium to the left ventricle.
- d) Blood with oxygen is pumped from the left atrium to the right ventricle.
- The lungs are protected by :
 - a) The skeleton b) the rib cage c) the skull d) the bones
- What happens when you breathe in?
 - a) Oxygen take in b) carbon dioxide is released
 - c) oxygen is released d) carbon dioxide is taken in
- The intestines are part of the :
 - a) respiratory system b) muscular system c) digestive system d) circulatory system
- The intestines help to :
 - a) eat food b) break down food c) recognize food d) protect food
- which part of human body is also a muscle?
 - a) the brain b) the skeleton c) the heart d) all of the above
- when muscle contract they become :
 - a) taller b) shorter c) longer d) wider

Question 2: Below are anagrams of some body parts. Try and work out what they are. All these body parts are named in unit 1.

1. **Bairn** _____
2. **Earth** _____
3. **Tennis site** _____
4. **Sink** _____
5. **One tug** _____
6. **Crumble eel** _____
7. **Ball net roof** _____
8. **Clever nit** _____

Parents sign: _____

Date: 4th July, 2020

Day: Saturday

Topic: Assessment

Total marks: 20

Question 1 : Answer the following questions.

- What is the function of cerebellum? /2

Answer: _____

- Name the chambers of human heart? /2

Answer: _____

- What is the role of intestines? /2

Answer: _____

Question 2: Encircle the best option.

/3

- which part of human body is also a muscle?
a) the brain b) the skeleton c) the heart d) all of the above
- when muscle contract they become :
a) taller b) shorter c) longer d) wider
- The small intestine is about _____ long.
a) 4m b) 6m c) 8m d) 10m

Question 3: Fill in the blanks.

/2

- Blood with _____ is sent to the body.
- _____ lobe processes what you see.

Question 4: Answer the following question in detail.

/4

- What is the function of the following?
1 The occipital lobe
2 The temporal lobe
3 The frontal lobe
4 The parietal lobe

Answer:

Parents sign: _____