HEALTHY & SUSTAINABLE LIFESTYLE (LEVEL 3)

Description	Learners will be introduced to recommendations on how to maintain physical and mental health, and then will be asked to implement those and monitor along the way	
Leading Question	Is my family leading a healthy and sustainable lifestyle?	
Total Time Required	7 hours over 8 days	
Supplies Required	Paper and pencil.	
Learning Outcomes	 Understanding the importance of eating well, exercising and sleeping well in keeping good health for body and mind Practicing good sleeping and eating habits Understanding the importance of good mental health Collecting data and representing it in tables and graphs Understanding and correctly finding out the Median, Mean, Range and Mode of a data sets 	
Previous Learning	Arithmetic operations with decimals or fractions.	

Day 1

Today you will learn about how to keep a healthy body and mind!

Suggested Duration	Activity and Description
10 minutes	In this project, we will look at the various aspects of a health nourishing lifestyle, which helps to maintain physical health and mental health. Physical health is maintained through a balance of: eating, working out, and sleeping.
Mental and psychological health can be maintained by having self-estee optimism, gratefulness, expressing feelings to people we trust, and havi purpose and goals.	
	Suggested mental health activities:
	 Express feelings, to those you trust, without hurting others. Try to be optimistic during hard times by focusing on the big picture and on positive aspects, as lessons learned. Regularly recall what you are grateful for.



- Always check on and review your purpose and goal in life:
 - What do I want to do when I grow up?
 - How will that help other people, or our planet?

15 minutes

- Sleeping habits:
 - Hours of sleep (recommended 9 to 11 hours for this age)
- How many hours did you sleep last night? Is the duration within the recommended range?
- On a piece of paper, draw a weekly log as shown below and hang it on the wall in your bedroom to note down the data on it everyday.

Day	time I went to bed	time I woke up	Sleep duration
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Saturday			
Sunday			

^{*}Once you have the data filled for 1 whole week, calculate the Mean (average) and Median of your daily sleep duration:

Mean =

Sum of sleep duration for 7 days

7

Median: is the middle value after organizing the values in an ascending order.

Reflection

Once you have the data filled for 1 whole week, you will reflect on the following questions:

- Are you having enough sleep every night (between 9 and 11 hours)?
- Are you going to sleep before 9 pm every night?

 What do you need to do to make sure you go to bed before 9 pm and have 9-11 hours every night?

In case some of the reasons for you not going to bed before 8 pm are beyond your control e.g late supper time, you should discuss with the responsible family member giving reasons why you need to sleep before 8 pm.

20 minutes

Eating habits

My Healthy Plate is a friendly easy-to-understand visual guide for creating balanced and healthy meals. It shows you what to eat in the right amounts for each meal, so that you can practice good eating habits.

The Healthy Plate below was created by nutrition experts at Harvard School of Public Health. The My Healthy Plate should be accompanied by water



Source: https://www.gasolfoundation.org/en/downloadable-healthy-plate/

- Reflect on the food you ate yesterday and categorize it under the four food types below: grains, vegetables (veggies), fruits and proteins.
- Record your findings in the table below

Food type	Food you ate yesterday
Grains	
Fruits	



Proteins	
Vegetables	

- Compare the type of food you ate yesterday (indicated in the table) to the proportions shown in the My Healthy Plate*:
 - ¼ Grains (bread, rice, pasta, ...)
 - ¼ Protein (beans, fish, eggs, meat)
 - A little more than $\frac{1}{4}$ Vegetables
 - A little less than a ¼ fruits
 - Use healthy oils with the food



1/4

one quarter is one of 4 similar parts

 *It is worth mentioning that traditional ways of eating are the ideal guide to good food and good health. The above is just a modern universal suggestion of a healthy diet. See examples of <u>Traditional Diets</u> adapted from https://oldwayspt.org/

Drinking water

The human body is about 60% water. The body constantly loses water throughout the day mostly through urine, sweat and from regular body functions like breathing. To prevent dehydration, you need to drink a lot of water even if you are not thirsty.

Health experts recommend:

- 8 glasses (1.5 liters) for 9 to 12 year olds
- 10 glasses (2 liters) for 13+ years (assuming 200 ml /glass)
- Do you usually drink as much as recommended daily?
- Draw a table like the one below to monitor your daily eating habits.
 - In the first column, answer with a Yes or No.
 - In the second column, draw a glass of water every time you drink one.



Day	Was my food intake balanced as in the Healthy Plate diagram?	Number of glasses of water per day
Monday		



Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

Then calculate the <u>mean</u>, <u>median</u>, <u>range</u> and <u>mode</u> of the number of water glasses you drink per day.

The range = Highest – Lowest

Mode: is the most frequent number.

- At the end of the week, present the compiled results to the family and discuss the below questions:
 - What was the total number of Yes, versus No answers?
 - Did you drink enough water every day?
 - What do you need to do to improve your eating and drinking water habits to make them more health nourishing?
 - Should you change the time of your meals, cooking patterns, or ingredients?

20 minutes

Physical workout

- From the World Health Organization (WHO):
 - 1. Children and youth aged 5–17 should accumulate at least 60 minutes of moderate- to vigorous-intensity physical activity daily.
 - 2. Amounts of physical activity greater than 60 minutes provide additional health benefits.
 - 3. Most of the daily physical activity should be aerobic. Vigorous-intensity activities should be incorporated, including those that strengthen muscle and bone, at least 3 times per week.

Source: https://www.who.int/dietphysicalactivity/global-PA-recs-2010.pdf

- As mentioned above, you are required to do physical activity daily, and to show your daily exercise time on a bar graph like the one below:
- Aerobic activity examples that can be done indoors.



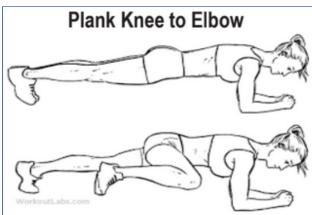




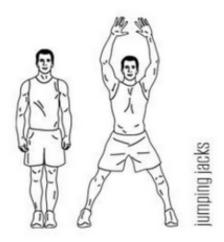


Full Burpee OR Half Burpee





Jumping Jacks





15 minutes

You are required to workout daily at home, or outside keeping a far distance from others, and to note down the time of your daily workout minutes in a table like the one below, in order for it to be shown on a graph like the one below:

Day	Workout minutes
Monday	60
Tuesday	45
Wednesday	75
Thursday	60
Friday	45
Saturday	60
Sunday	75



Day 2

Today you will learn about physical exercise you can do at home.

Suggested Duration	Activity and Description
15 minutes	Let's start today with a mental health check
	- Recall at least 3 things that you are grateful for. Express each in one or
	more words. You may also draw a representation of it.
	- Being Grateful means being highly appreciative and showing kindness.

45 minutes

- Observe 3 family members and note down how many times they touch their face in 15 minutes. You must tell them and get their consent that you will be observing them for an experiment that is beneficial for them. Then wait for some time before you start the 15-minute observation time to ensure that they do it naturally as usual.
 - Observe one family member at a time. Note down the times they touch their face using a tally chart and write it in the below table.
- When collecting the information, for every touch of the face, a line would be drawn in the correct box. When you get to five lines, the fifth line needs to be crossed through the first four. (This makes counting the lines at the end easier!). See below how after reaching 4 counts, the fifth is concluded with a crossed line. See the examples below for a 4 followed by a 5.



1	No. of times they touch their face in 15 minutes	Estimate for 1 hour

• In the above table, you must multiply by 4 the Number you counted in 15 minutes, and the answer will be the estimate for 1 hour.

15 minutes

Show the results to family members. Ask them if they expected this? Now
knowing the estimate of how much they touch their face in an hour, what
will they do the next time they go out? They must be careful not to touch
their face when their hands are not washed in order to eliminate the
chances of catching the Covid19 infection

All day long

- Remember to:
 - Record data on the daily eating habits table
 - Fill in the Sleeping log
 - Conduct your daily workout and note down the time in the table
- Did you record the data from yesterday? Have you faced any difficulties doing that?

Day 3

Today you will continue your healthy and sustainable lifestyle with a mental health check.

Suggested Duration	Activity and Description
15 minutes	 Mental health check We must always check on and review our purpose and goal in life:
	What do you want to be when you grow up?How will that help other people, or our planet?
30 minutes	 Solve the <u>Data handling Worksheet</u> without using a calculator, then share
	your work and answers with your parent.
	 Criteria: logically following the formulas and reaching correct answers.
10 minutes	 Present your work and answers to parents.
	Answer Key
	1.c 8.86 or 8 $\frac{6}{7}$ °C
	2.a 1
	b 4
	3. 13.7 seconds
	4. a 50.89 or $50 \frac{8}{9}$ matches
	b. 49
	c. 5
	d. 52
All day long	Reminder to:
	 Record data on the daily eating habits table
	- Fill in the Sleeping log
	 Conduct your daily workout and note down the time in the table

Day 4

Today you will continue your healthy and sustainable lifestyle with a mental health check, physical exercise and monitoring your eating habits.

Suggested	Activity and Description
Duration	



20 minutes	Mental health check			
	 Do you sometimes have strong feelings that you like to tell someone about? Feelings like fears, worries, sadness, pride? To whom do you usually express your feelings? Is there anything you want to talk about today? 			
60-70 minutes	 Do a 1-hour workout at home Monitor daily eating habits and record scores in the respective table Write your sleeping hours in the sleeping log 			

DAY 5-7

Today you will continue your healthy and sustainable lifestyle with a mental health check, physical exercise and monitoring your eating habits.

Suggested
Duration

Activity and Description

60-70 minutes

- Do a 1-hour workout at home
- Monitor daily eating habits and record scores in the respective table
- Write your sleeping hours in the sleeping log

Weekly food menu

Develop a weekly food menu for the family using locally available affordable foods which can enable you and the family members to select a My Healthy plate

Day of week	Fruits options	Vegetables options	Proteins options	Grains options
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
Sunday				



Note: You can make use of Appendix 1: Building blocks of a healthy diet when developing the options for the weekly food menu.

DAY **8**

Today you will show your parents what you've learned in the last week.

Suggested Duration	Activity and Description			
15 minutes	 Present to the family the sleeping log and the average sleeping hours that were calculated. Is the average duration within the recommended range? If not, what can be done to get your sleep within the recommended range? 			
15 minutes	 Present to the family the Eating habits table, followed by a discussion. What was the total number of Yes versus No answers for the eating habits? What were the mean, median, range and mode of glasses of water you drank everyday? How can we improve our eating and drinking water habits to make them more health nourishing? Should we change the time of our meals, cooking patterns, or ingredients? 			
15 minutes	 Present your workout table along with the graph showing the daily work out duration Calculate the average of your daily workout. Is the average close to 60 minutes? What can be done for you to complete 60 or more minutes of daily workout? 			
15 minutes	 Reflection: What did you appreciate the most about this project? Do you think you can lead a lifestyle that helps you maintain mental and physical health? What were the family members willing to change and what were they reluctant to change? How can you help or teach someone else to maintain a healthy lifestyle? 			



ASSESSMENT CRITERIA

- Tables and graphs are duly filled
- The graphs are accurate, and calculations are correct.
- Learners show motivation and grit while working on activities
- Table of weekly food menu duly filled
- Learners show ownership and enthusiasm when presenting their results at the end.

ADDITIONAL ENRICHMENT ACTIVITIES

- Create a journal of daily practices to be shared with friends.
- Lead daily workout sessions for the family
- Write down a suggested meal schedule for a week following the Healthy Plate model rations.

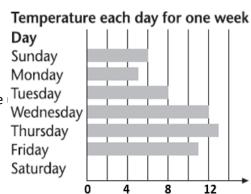
MODIFICATIONS TO SIMPLIFY

The project can be reduced to the Healthy Eating plate, sleeping log and daily workout graph.

DATA HANDLING WORKSHEET

1. Here is a chart of the maximum temperature each day for a week in a Mediterranean city in January.

EAA welcomes feedback on its projects in order to improve, please https://forms.gle/LGAP9k17fMyJrKJN7 Wednesd



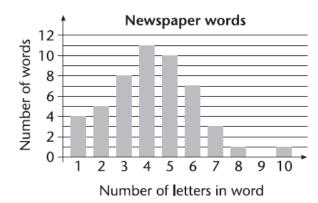


- a. The temperature on Saturday was 7°C. Draw in the bar for Saturday.
- b. Make a table showing the same information as on the bar chart.
- c. Calculate the Mean temperature for the week.

2. An article from the Gulf Times has 50 words in it.

Here is a bar chart of the number of letters in each word.

a. What is the range of the number of letters in the words used?



- b. What is the mode (most common number) of letters used in a word?
- 3. Bashir runs 100 metres ten times.

These are his times in seconds.



13.4	13.0	13.9	13.7	13.3
13.5	14.0	14.4	13.8	14.0

What is his mean time?

4. Alia counts the matches in nine matchboxes.

Here are her results for the nine boxes:

Number of matches in a box						
48	49	50	51	52	53	54
	✓	✓	✓	✓		✓
	✓	✓				✓
	✓					

- a. What is the median number of matches in a box?
- b. What is the mode for the number of matches in a box?
- c. What is the range of the number of matches in a box?



d. Alia counts the matches in one more box.

She works out that the mean number of matches in all ten boxes is 51.

Calculate how many matches are in the tenth box.

TRADITIONAL DIETS



African Heritage Diet Pyramid



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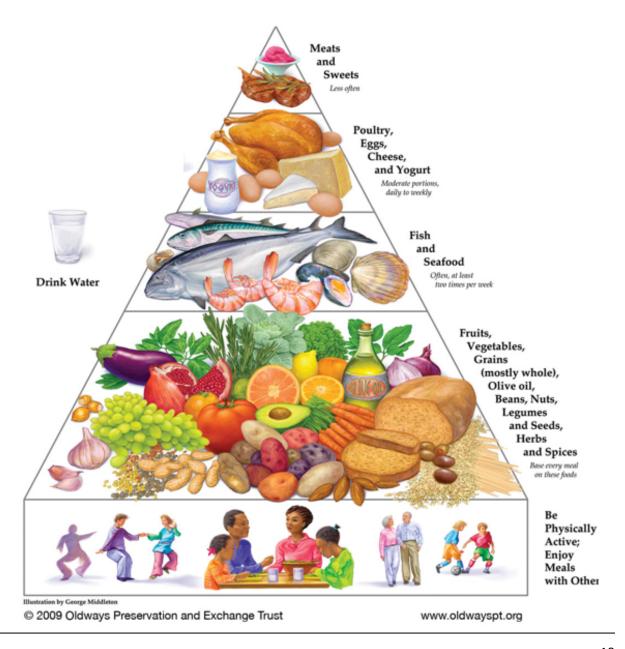
www.oldwayspt.org



ASIAN HERITAGE DIET PYRAMID



Mediterranean Diet Pyramid





https://www.healthbeckon.com/healthy-vegetables/

Appendix 1: Building blocks of a healthy diet

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Food Type

Food type options

Vegetables: Vegetables protect us against heart disease and certain cancers

Examples of vegetables: Cucumber, broccoli, cauliflower, asparagus, green beans, pepper, eggplant, spinach, tomatoes, banana, carrots, onions, squash, cabbage etc.



Lean protein: Proteins help the body repair muscles and cartilage

Lean protein sources: Chicken or turkey without skin, fish (salmon, tilapia), lean cuts of beef or pork, beans, egg white, sea food, nuts, soy products, peanut butter etc.



Fruits: Fruits provide important vitamins and minerals including potassium, vitamins A and C and folic acid. Vitamins help the body to fight diseases by boosting its immune system

Examples of fruits include: Apples, bananas, blueberries, cherries, grapes, oranges, pears, strawberries etc.



Whole grains: Whole grains are rich in carbohydrates (energy-giving), contain fiber and key nutrients such as iron, magnesium and folic acid.

Examples of whole grains include: brown rice, barley, millet, wheat, cereal, oatmeal, whole-grain bread etc.