## Healthy \& Sustainable Lifestyle (level 3)

| Description | Learners will be introduced to recommendations on how to maintain physical <br> and mental health, and then will be asked to implement those and monitor <br> along the way |
| :--- | :--- |
| Leading Question | Is my family leading a healthy and sustainable lifestyle? |
| Total Time | 7 hours over 8 days |
| Required | 1. Understanding the importance of eating well, exercising and sleeping <br> wupplies Required in keeping good health for body and mind |
| Learning | 2. Practicing good sleeping and eating habits |
| 3. Understanding the importance of good mental health |  |
| 4. Collecting data and representing it in tables and graphs |  |

## Day 1

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

## Suggested Activity and Description

Duration

## 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-esteem, optimism, gratefulness, expressing feelings to people we trust, and having a life 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.

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- 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 <br> 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 =
$\frac{\text { Sum of sleep duration for } 7 \text { days }}{7}$
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?

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- 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 |  |

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| Proteins |  |
| :--- | :--- |
| Vegetables |  |

- Compare the type of food you ate yesterday (indicated in the table) to the proportions shown in the My Healthy Plate*:
- $\quad 1 / 4$ Grains (bread, rice, pasta, ...)
- $\quad 1 / 4$ Protein (beans, fish, eggs, meat)
- A little more than $1 / 4$ Vegetables
- A little less than a $1 / 4$ 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 Traditional Diets 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 to12 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 <br> intake balanced as <br> in the Healthy <br> Plate diagram? | Number of glasses of water per day |
| :--- | :--- | :--- |
| Monday |  |  |

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| Tuesday |  |  |
| :--- | :--- | :--- |
| Wednesday |  |  |
| Thursday |  |  |
| Friday |  |  |
| Saturday |  |  |
| Sunday |  |  |

Then calculate the mean, median, range and mode 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.

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Full Burpee OR Half Burpee


Jumping Jacks


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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 Activity and Description
Duration
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.

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## 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 .
IIII XH

| Family member | No. of times they <br> touch their face in <br> 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?

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## Day 3

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


## 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

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## 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 Activity and Description

## Duration

## 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 <br> options | Proteins <br> options | Grains options |
| :--- | :--- | :--- | :--- | :--- |
| Monday |  |  |  |  |
| Tuesday |  |  |  |  |
| Wednesday |  |  |  |  |
| Thursday |  |  |  |  |
| Friday |  |  |  |  |
| Saturday |  |  |  |  |
| Sunday |  |  |  |  |

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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 <br> Duration | Activity and Description |
| :--- | :--- |
| 15 minutes | -Present to the family the sleeping log and the average sleeping hours that <br> 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?

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## https://forms.gle/LGAP9k17fMyJrKJN7

## 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.

Temperature each day for one week

a. The temperature on Saturday was $7^{\circ} \mathrm{C}$. 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.

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| 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 |
|  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
|  | $\checkmark$ | $\checkmark$ |  |  |  | $\checkmark$ |
|  | $\checkmark$ |  |  |  |  |  |

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?

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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.

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## African Heritage Diet Pyramid



Illustration by George Middleton
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Be active;
Enjoy meals with others

## ASIAN HERITAGE DIET PYRAMID

Mediterranean Diet Pyramid


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https://www.healthbeckon.com/healthy-vegetables/
Appendix 1: Building blocks of a healthy diet


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