Theme:

Personal Life-Skills

Safety

Lifestyle (Healthy)

Exercise & Fitness Management

NEW TOWN SECONDARY SCHOOL
PHYSICAL EDUCATION

PHYSICAL HEALTH & FITNESS
SECONDARY 1

LESSON 1: KNOWING YOUR HEIGHT, WEIGHT & BMI

Lesson Objectives:

1. Knowing Singapore & her Obesity Crisis

2. Calculating your BMI

3. Importance of a healthy weight

GLOBAL EPIDEMIC!
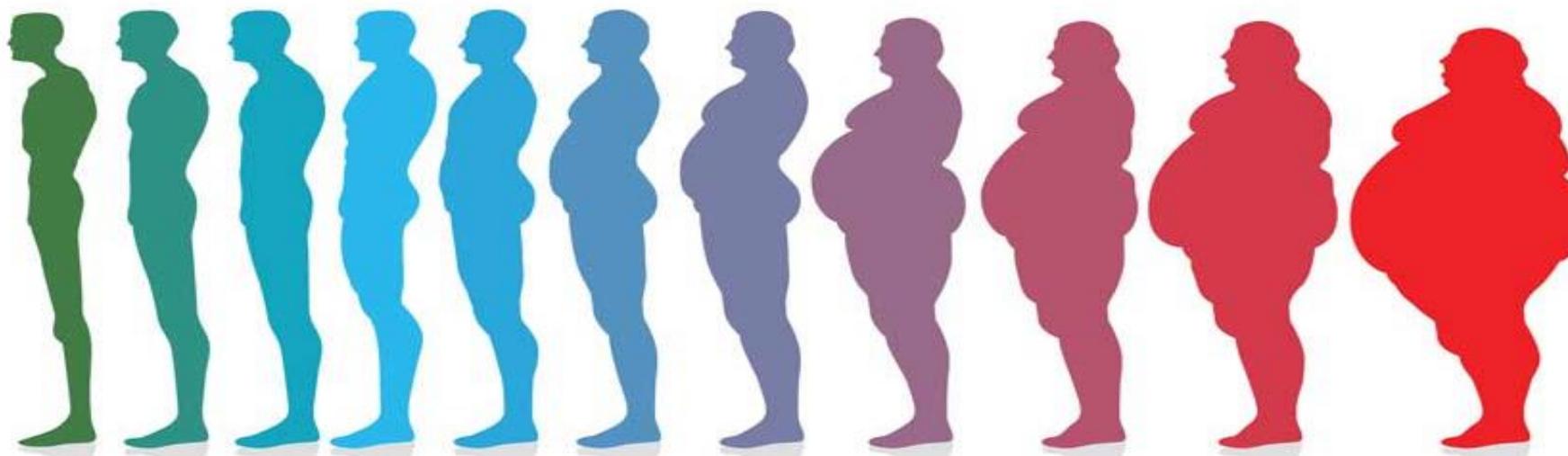
Overweight statistics (2017):
- 18-69 years old: **36.2%**
- Children: **13%**

6 in 10 Singaporeans eat more calories daily than what is recommended.

Singapore risks hitting obesity rates of 15% in 5 years!

"An unhealthy body weight in childhood is likely to persist and progress later in life, leading to an increased risk of conditions such as diabetes, heart disease and stroke," said Dr Khor.

How to Achieve a Healthy Weight?

1. Understand the dangers of Obesity
   - Obesity
     = Condition in which excess body fats accumulates.
     = Puts you at risk of a variety of health problems.
     = May reduce life expectancy & increase the risk of other health problems (eg. Diabetes, stroke, heart diseases)

2. Know your BMI

3. Plan Well & Follow your Plan Well
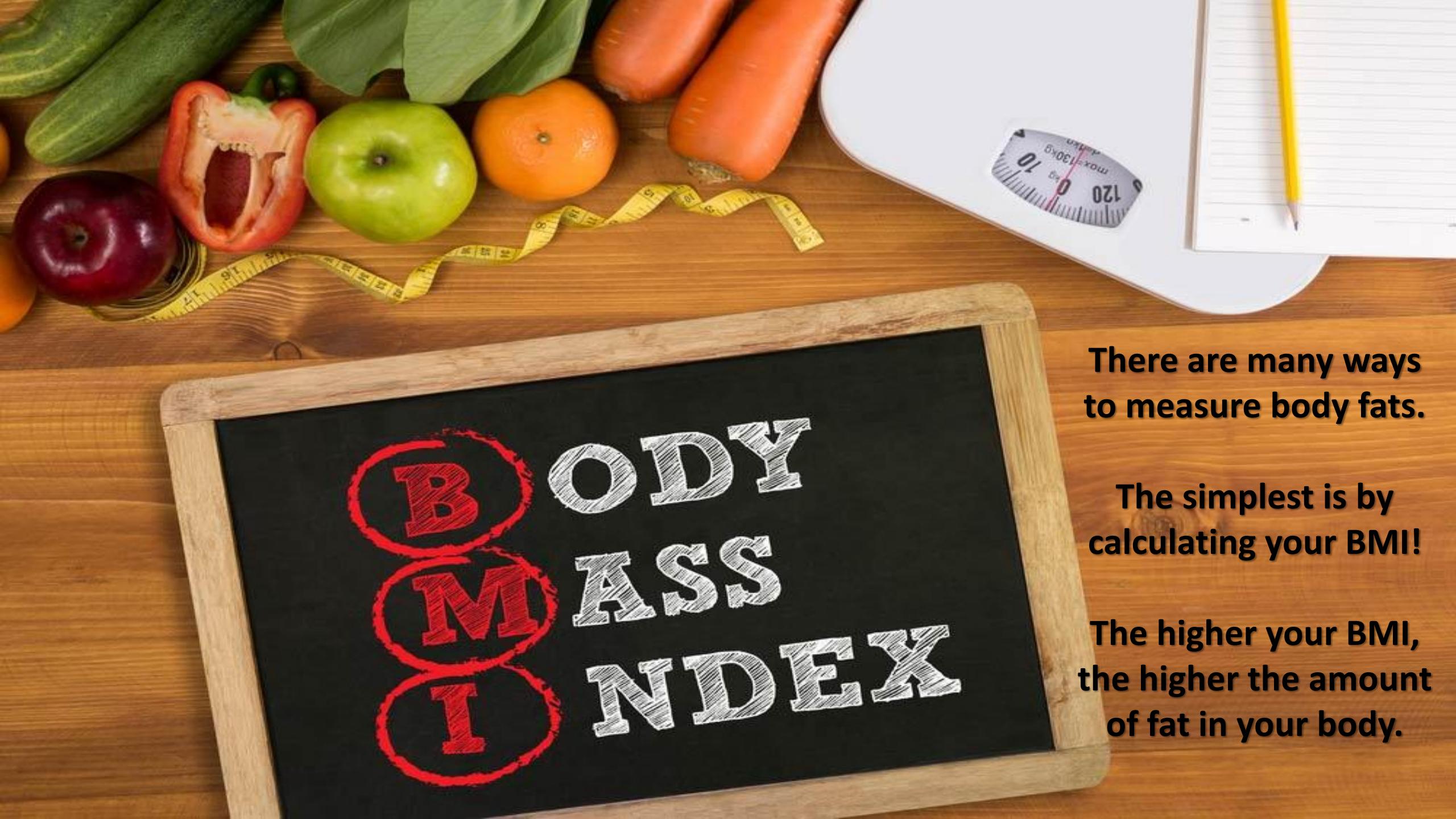
There are many ways to measure body fats.

The simplest is by calculating your BMI!

The higher your BMI, the higher the amount of fat in your body.

CALCULATE YOUR OWN BMI NOW!

$$BMI = \frac{Weight(kg)}{Height\ (m)\ X\ Height\ (m)}$$

BODY MASS INDEX
MEDICAL INFOGRAPHIC
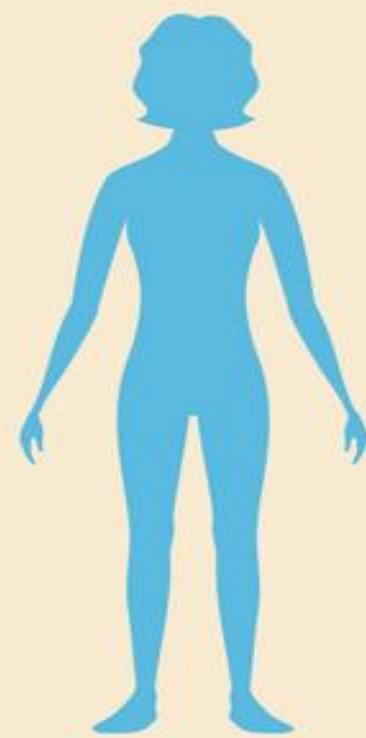
BOYS
(13 Years old)

UNDERWEIGHT
14.8 − 15.1
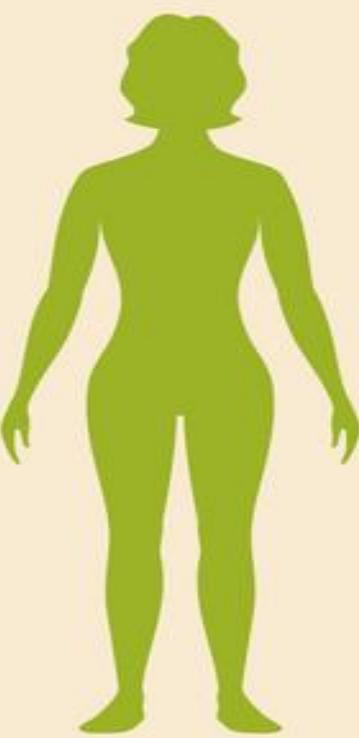
ACCEPTABLE
15.2 − 25.0

OVERWEIGHT
25.1 − 30

SEVERELY
OVERWEIGHT
≥30.1

BOYS

Weight Indicator / Age (years)	Severely Underweight < 3rd percentile	Underweight 3rd - < 5th percentiles	Acceptable Weight 5th - < 90th percentiles	Overweight 90th - < 97th percentiles	Severely Overweight ≥ 97th percentile
6	≤ 12.8	12.9 – 13.1	13.2 – 18.8	18.9 – 21.4	≥ 21.5
7	≤ 13.0	13.1 – 13.3	13.4 – 19.8	19.9 – 23.0	≥ 23.1
8	≤ 13.2	13.3 – 13.6	13.7 – 20.9	21.0 – 24.6	≥ 24.7
9	≤ 13.5	13.6 – 13.8	13.9 – 21.8	21.9 – 26.0	≥ 26.1
10	≤ 13.8	13.9 – 14.1	14.2 – 22.7	22.8 – 27.3	≥ 27.4
11	≤ 14.1	14.2 – 14.5	14.6 – 23.6	23.7 – 28.3	≥ 28.4
12	≤ 14.4	14.5 – 14.8	14.9 – 24.3	24.4 – 29.2	≥ 29.3
13	≤ 14.7	14.8 – 15.1	15.2 – 25.0	25.1 – 30.0	≥ 30.1
14	≤ 15.0	15.1 – 15.4	15.5 – 25.5	25.6 – 30.6	≥ 30.7
15	≤ 15.3	15.4 – 15.8	15.9 – 26.1	26.2 – 31.2	≥ 31.3
16	≤ 15.6	15.7 – 16.1	16.2 – 26.5	26.6 – 31.7	≥ 31.8
17	≤ 15.9	16.0 – 16.3	16.4 – 27.0	27.1 – 32.1	≥ 32.2
18	≤ 16.1	16.2 – 16.6	16.7 – 27.4	27.5 – 32.4	≥ 32.5

BODY MASS INDEX

MEDICAL INFOGRAPHIC
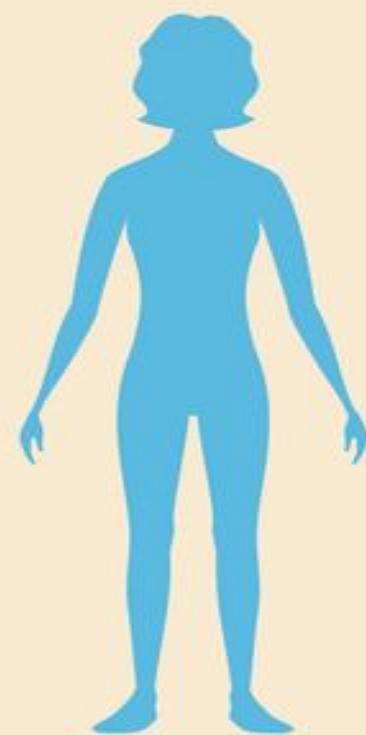
| UNDERWEIGHT 14.9 - 15.2 | NORMAL 15.3 – 24.0 | OVERWEIGHT 24.1 – 28.3 | SEVERELY OVERWEIGHT ≥ 28.4 |
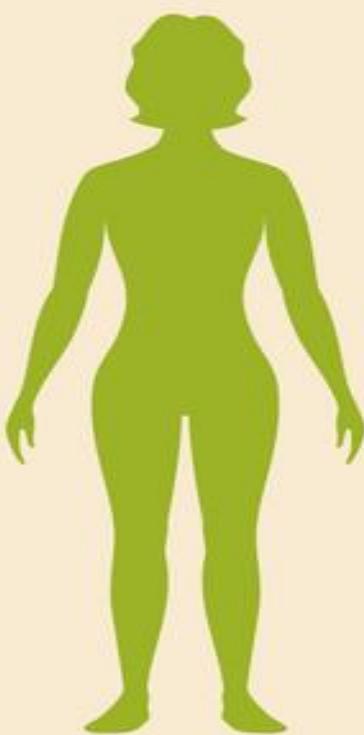
GIRLS
(13 Years old)

GIRLS

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18	≤ 16.1	16.2 - 16.5	16.6 – 25.9	26.0 - 30.3	≥ 30.4

BMI Ranges

18.5 TO 22.9 LOW RISK	23 TO 27.4 MODERATE RISK	27.5 AND ABOVE HIGH RISK

Weight (kg)   **BMI**

High Risk — 27.5

Moderate Risk — 23

Low Risk
(healthy range)

— 18.5

Risk of
nutritional deficiency
diseases and osteoporosis

Height axis: 110, 100, 90, 80, 70, 60, 50, 40

Height (m): 1.4 1.45 1.5 1.55 1.6 1.65 1.7 1.75 1.8 1.85 1.9

Height (m)
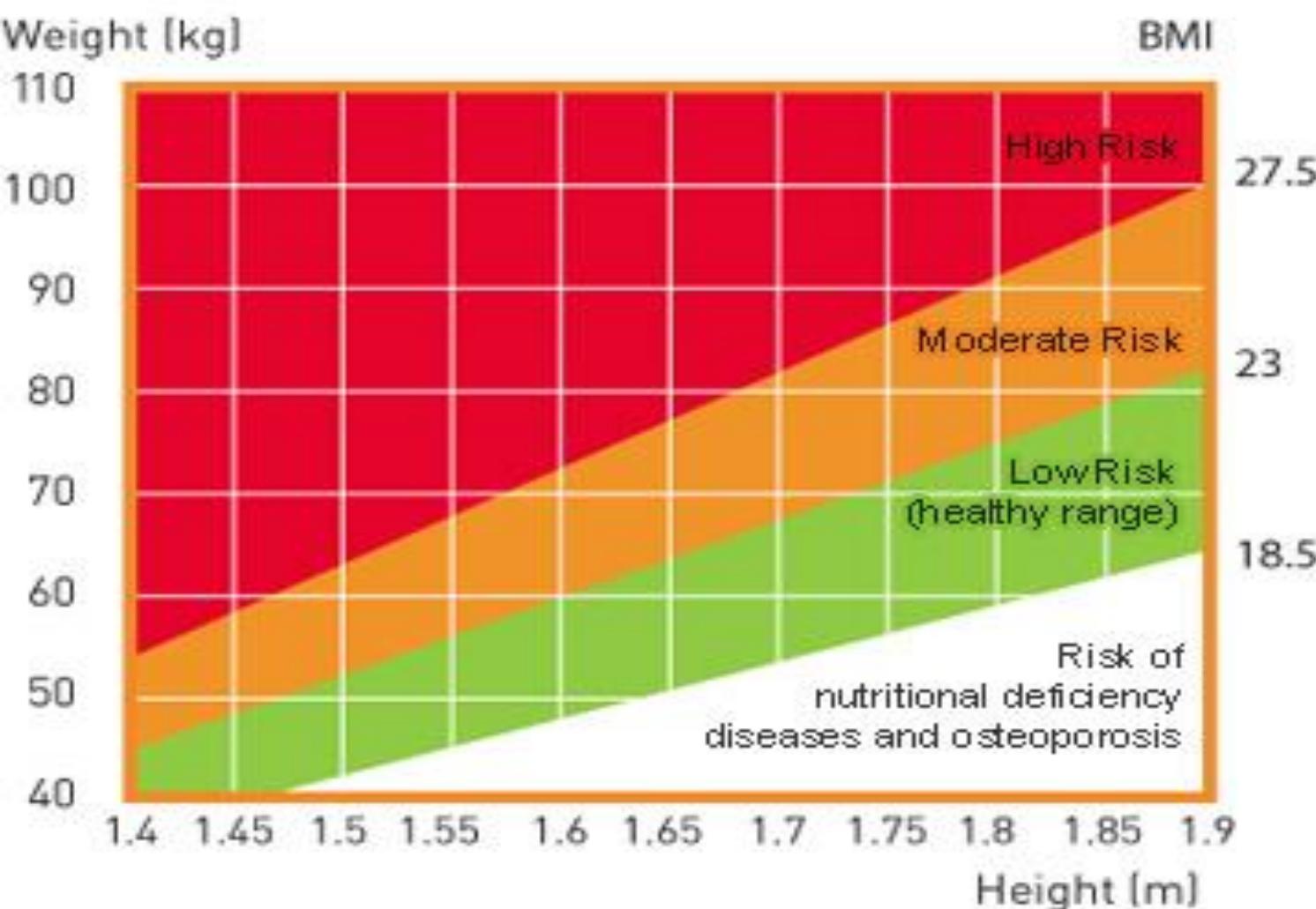
Note: BMI should not be used to calculate health risk in pregnant women, people with muscular build and the elderly. These BMI ranges also do not apply to youths below 18 years.

UNDERWEIGHT and the risk of being Malnutrition is equally important!

HOW CAN I MANAGE A HEALTHY WEIGHT ?
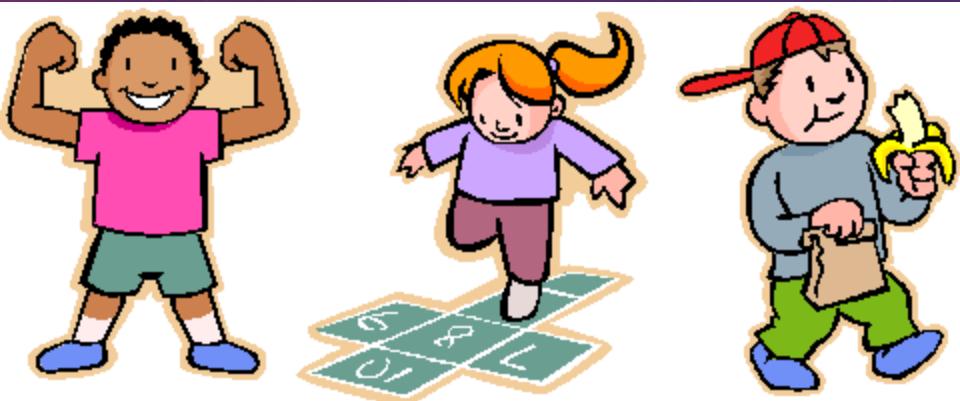
Calculate your BMI.
Lose or Gain Weight the Right Way

Make it A Lifestyle & Be Consistent

Track your Progress!
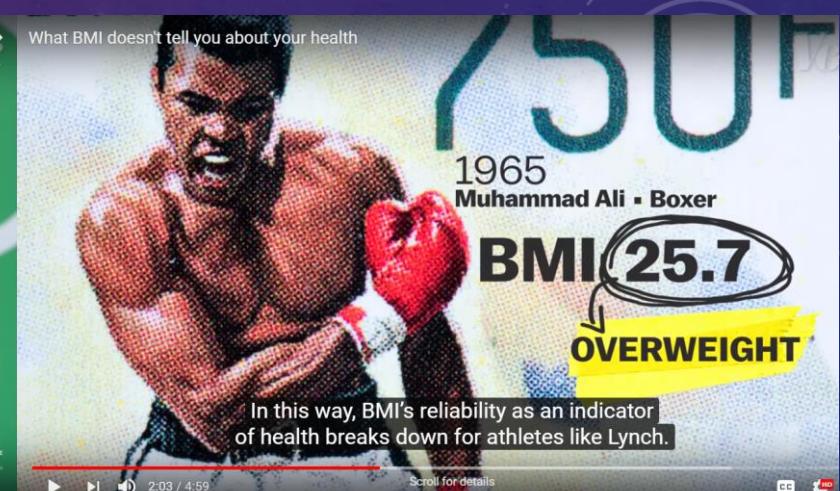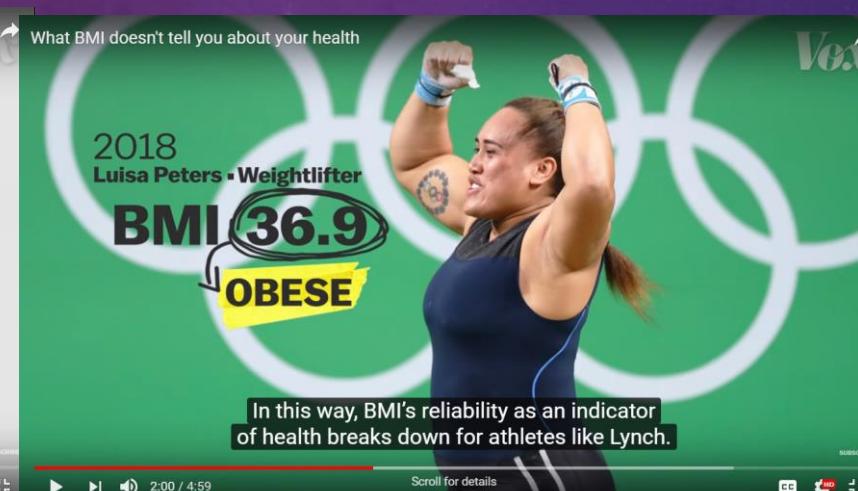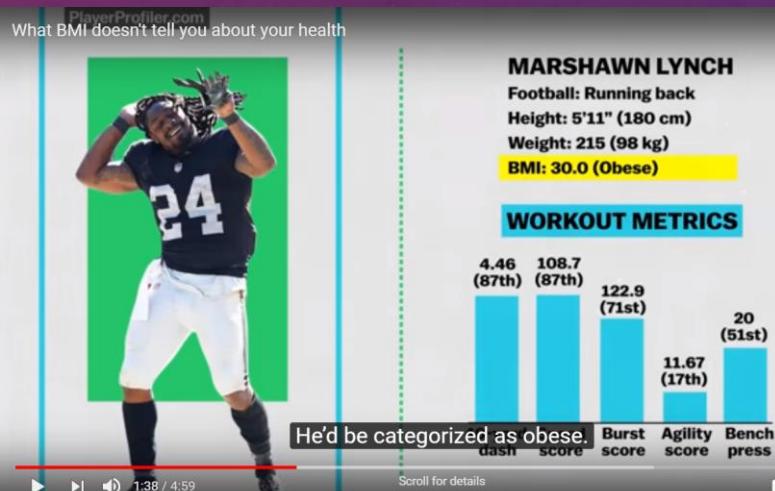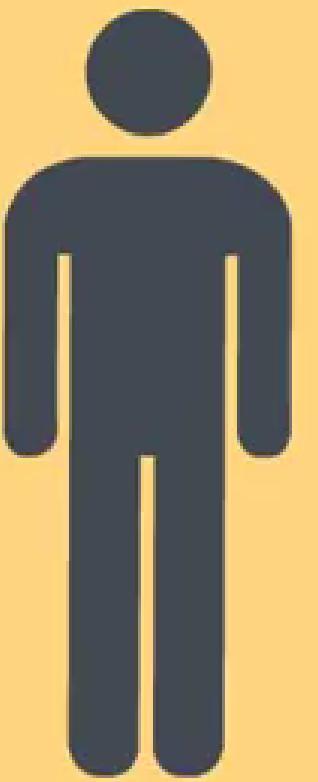
ANY QUESTIONS?

Resources:
1. https://www.straitstimes.com/singapore/adults-are-getting-fitter-but-children-are-increasingly-overweight-moh-figures

2. https://www.healthhub.sg/live-healthy/410/Healthy%20Weight

3. https://www.healthhub.sg/live-healthy

4. https://www.youtube.com/results?search_query=bmi+and+weight+management+animated