

NEW ERA PRIMARY SCHOOL

2016 E.C General Science Worksheet 1

For Grade 8

1. Categorize the following units as Fundamental (Basic) or Derived Units in the table below using (✓) mark.

Units of Measurement	Fundamental unit	Derived Unit
Cubic meter(m^3)		
Second(Sec)		
Kilogram/meter cube(kg/m^3)		
Meter(m)		
Newton(N)		
Kilogram(Kg)		
Kelvin(K)		
Meter/Second(m/s)		
Meter squared(m^2)		
Mole(mol)		
Candela(cd)		
Meter/second squared(m/sec^2)		
Ampere (A)		

2. Define the following terms or phrases correctly.

- A. Measurement
- B. Indigenous method of measurement
- C. Physical quantity
- D. Precision
- E. Accuracy
- F. Scientific investigation

3. Describe measuring instruments that are used to measure:

- A. Mass
- B. Length
- C. Time
- D. Temperature

10. One of the followings is an example of derived unit. Which one is it?

11. Which one of the following indigenous method of measurement is not used to measure length?

- A. Arm span B. Hand span C. Weget D. Digit

S.N	Description of the measurement	Unit of measurement	Measured physical quantity	Amount of measurement
A	The mass of block of wood is 29kg.			
B	The height of the building is 58 meter			
C	The temperature of the room is 25 C			
D	The length of the football field is 70meter			
E	The final exam took 2 hours			

12. 5.8 km is equal to:

- A. 5,800m B. 580,000 cm C. 5,800,000mm D. All

13. One is different from others. Which one is it?

- A. Kg B. m³ C. m² D. m/sec

14. Which one of the followings is an example of calculated physical quantity?

- A. Mass B. Temperature C. Speed D. Time

15. Convert the following units of physical quantity.

A. $1000 \frac{kg}{m^3} = \frac{g}{cm^3}$

B. $20 \frac{m}{sec} = \frac{km}{hr}$

C. 500g is equal to _____ kg. _____ mg.

D. $\frac{3}{2}$ hr is equal to _____ minutes _____ seconds.

E. 2 hrs + 45 min + 54 seconds = -----seconds

F. The average temperature in A.A in summer, is about 25 C. The equivalent temperature in kelvin and fahrenheit respectively are equal to _____ and _____.

16. The accepted value of the measurement of mass of an object is **8.72kg**. If four students **X**, **Y**, **Z**, and **W** are asked to measure the mass of the object three times, the following results were obtained.

Trial	Student X	Student Y	Student Z	Student W
1	8.72kg	8.50kg	8.50kg	8.41kg
2	8.74kg	8.77kg	8.48kg	8.72kg
3	8.70kg	8.83kg	8.51kg	8.55kg

- A. Which measurement is the most precise?
B. Which measurement is the most accurate?
C. Which measurement is the least precise?

17. The SI unit of time is :

- A. Clock B. Year C. Second D. All