

UNIT 1**SCIENTIFIC WORK.**
QUANTITIES AND UNITS.**ACTIVITIES**

1.- What happens if you mix water with oil? Formulate a hypothesis and test it with an experiment.

2.-  Complete the table. Listen and check.

ADJECTIVE	NOUN
Long	
Wide	
	Depth
	Height

3.- What units are used to measure the following?

- The time it takes the Earth to orbit the Sun once?
- The distance between the Earth and Mars.
- The distance from your house to your school.
- The amount of water in a glass.
- The length of a swimming pool.

4.-  Listen, repeat and underline the stressed syllable.

- a. second b. coulomb c. kelvin d. metre e. kilogram

5.-  Complete the paragraph with the missing words from the box. Listen and check.

International	fractions	quantities
scientific	multiples	

A system of units is a _____ method to express the values of _____. In 1960 all the countries in the world decided to adopt the _____ System of Units. Sometimes the SI units are too big or too small, so instead, _____ and _____ are used.

6.- Calculate the following unit conversions.

- | | |
|-----------------------|---|
| a) 150 mg to kg | f) 150 000 g to kg |
| b) 0.35 dag to mg | g) 360 min to h |
| c) 360 000 cm to km | h) 0.02 mg to g |
| d) 4 836 000 dm to hm | i) 48 to s |
| e) 0.07 kg to g | j) 103 m ² to dam ² |

7.- Measure the area of a page from your book in cm², and then express the value in the following units:

- a. mm² b. dm² c. m²

8.-  Listen and say which unit of measurement corresponds to the quantity you hear. Then choose the correct symbol.

- | | |
|----------|------------|
| a) n / N | d) m / M |
| b) c / C | e) kg / KG |
| c) s / S | f) k / K |

9.-  Listen, repeat and underline the stressed syllable.

- a) hectometre
- b) decigram
- c) square millilitre
- d) square decametre

10.- Imagine we have a recipient with water on a heater. We measure the water temperature at different times, obtaining the table below. Draw a graph with these data.

Temperature (°C)	20	24	28	32	36	40	44
Time (min)	0	1	2	3	4	5	6

11.- Work in pairs. With a stopwatch, determine the time you need to pass, one by one, all the pages from the two first units of your textbook (20 pages). Take the time every 5 pages. Now, your partner will repeat the process.

- a) Show the results in two tables: time (s) and pages. One table for each person.
- b) Draw a graph according with the two tables.