



Nombre :

Grupo:

1. Write the name of the laboratory equipment you see in each image (in Spanish and English):





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2. Write the name of each symbol in Spanish and English.



3. Indicate if the following concepts are magnitudes, explaining briefly why:

- a) Mass                      b) Weight      c) Time              d) Beauty
- e) Bravery                  f) Speed        e) Length          e) Temperature

Structures to practise:

..... is a magnitude because it can be measured using a tool/instrument.

English	Spanish
Measure	
Magnitude	
Tool	
Translate	
Pour	
Heat	

4. Translate the following units:

1) MASS

Translate into kg		Translate into g	
10 g		400 kg	
0,4 dag		0,4 cg	

2) LENGTH

Translate into cm		Translate into m	
10 m		40 km	
0,4 m		0,04 cm	



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3) **VOLUME**

Translate into ml		Translate into L	
10 l		40 ml	
0,4 l		0,04 l	
195 dm <sup>3</sup>		195 dm <sup>3</sup>	
50 m <sup>3</sup>		50 m <sup>3</sup>	

5. Write the following numbers in scientific notation and viceversa:

Normal	Scientific notation	Normal	Scientific notation
78501000			$4,5 \cdot 10^4$
980000			$8,704 \cdot 10^6$
0,00547			$3,444 \cdot 10^7$
0,000079			$2,41 \cdot 10^7$

6. Tick the correct answer/s:

- a) Scientific knowledge arises from the need to respond to a problem and explain it using facts.
- b) Scientific knowledge is everything that uses scientific vocabulary.
- c) In order for a hypothesis to be scientific, we must be able to prove it using examples that occur in reality.
- d) Astrology forms a part of scientific knowledge.
- e) Provided that we use a scientific method we will obtain scientific knowledge.

7. Write the concept of each of the definitions:

a) The properties of phenomena that we can measure objectively.

.....  
.....

b) The result of comparing a quantity with a unit.

.....  
.....



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8. The average distance between the Earth and the Moon is about 150000000 km. This distance, expressed in scientific notation and in the international system of units (SI) is:

- 15000000000 m
- $1,5 \cdot 10^{11}$ m
- $1,50 \cdot 10^{10}$  km
- $150 \cdot 10^{10}$  m