

**Topic: "Dalton atomic theory and classification of matter"**  
**TRUE / FALSE QUESTIONS**

Name:

Classroom:

Classify the following sentences as true (T) or false (F).

#	Sentence	T / F
1	A carbon dioxide (CO <sub>2</sub> ) sample is an homogeneous mixture	F
2	According to Dalton the nucleus is inside the atom	F
3	According to Dalton matter cannot be divided indefinitely	T
4	Sublimation is a chemical process	F
5	The decomposition of water is a chemical process	T
6	The melting of a liquid is a physical process	F (*)
7	A homogeneous mixture can yield a compound through a chemical reaction	T
8	The following system is a compound: H <sub>2</sub> (g) + O <sub>2</sub> (g)	F
9	The following system is a heterogeneous mixture: H <sub>2</sub> O (l) + O <sub>2</sub> (g)	T
10	We can transform a heterogeneous mixture into a homogeneous mixture through a physical process	T

(\*) A liquid can't melt