

	FISICA & QUIMICA – 2º ESO Ficha Tema 6	Grupo:
Apellidos:	Nombre:	Fecha:

1. Fill the gaps with the following words :

Obtain, Type, increase/s (2), again, destroyed

- The _____ of energy can change or the energy can be transferred from one system to another but energy cannot be created or _____.
- The type of energy can change when changes in systems happen. On the other hand, a system can _____ its amount of energy but only if another system decreases its amount of energy. A system can decrease its amount of energy but only if another system _____ its amount of energy. We can't _____ energy from nothing.
- Energy degrades when it can't be used _____.

2. Match the following sentences:

- | | | |
|-----------------|--------------------------|--------------------|
| ▪ Plants | | food |
| ▪ Animals | | electricity |
| ▪ Cars | obtain their energy from | wind |
| ▪ Radios | | sun |
| ▪ Sailing ships | | elastic bowstrings |
| ▪ Arrows | | oil |

3. Complete the following table. Remember:

- o Temperature (K) = Temperature (°C) + 273
- o Temperature (°F) = 1.8 x Temperature (°C) + 32

TEMPERATURE (C°)	TEMPERATURE (K)	TEMPERATURE (F°)
10		
	200	
		30
-10		

4. Calculate the energy of a 2 Kg stone that is located 2 m above the floor. Which type of energy does this stone have? $g = 10 \text{ m/s}^2$
5. Calculate the energy of a 0,5 Kg rabbit running at 15 m/s. Which type of energy does the rabbit have?
6. A 3 Kg object is moving at 20 m/s and it is located 3 m above the floor. Calculate the mechanical energy (total) of this object.
7. Indicate the type of energy that the following systems have.
 - Food
 - Battery
 - Hot stove
 - Coal
 - Uranium
 - A moving car