

Name			
Class		Term	2
Year		Quiz Number:	Quiz 2
		Total Marks	/

- a) There are different theories about how the Moon was formed.
Name the theory that is currently accepted by most scientists.

Collison theory

- b) Describe this theory:

An object of a similar size to Mars collided with Earth; the object has been called Theia. The impact caused a disc of dust and rock to form around Earth; the dust and rock eventually came together under gravity to form the Moon. (2)

Calculate the mass of the following substances:

Reaction	Reactant(s)		Product(s)	
A)	H₂ + O₂ →		H₂O	
mass	3.4g	10g	13.4 g	
B)	CH₄ + O₂ →		CO₂ + H₂O	
mass	12.2g	14g	6.2 g	20.0g
C)	HgO →		Hg + O₂	
mass	23.6g		10.6 g	13.0g

Use the table to answer this question

Reaction	Starting temperature °C	Final temperature °C
A	20	31
B	22	18
C	21	25

a. Decide whether each reaction is endothermic or exothermic, explain how you could tell.

A: Exothermic
 B: Endothermic
 C: Exothermic

b. Which reaction has the largest energy change?

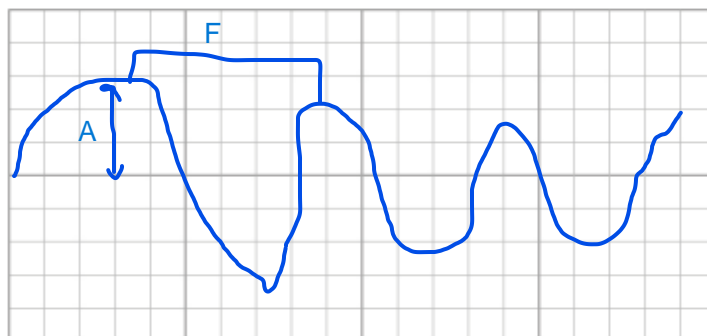
Reaction A.

a On the grid below, draw a diagram to represent a sound waveform.

Use a curved line, like this:



Make sure the amplitude **and** frequency stay the same.



b On your diagram, label the amplitude. Use a line and the letter A.

c On your diagram, label the distance that changes when the frequency of the sound changes.

Use a line and the letter F.

A musical instrument produces the musical note D that has a frequency of 587 Hz.

a Describe what happens to particles in the air when this note is produced.