Student name	
Grade	Grade7 term 2 2023-2024

Q1. Differentiate between the states of matter (solid, liquid, and gas), their properties and particles movement, and compare between energy content in different states of matter (14, 15, 17) (Textbook, figures, tables, 3D)

Solid	Liquid	Gas

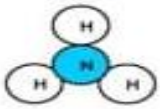
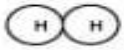
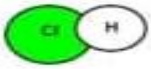
Which of the following has greatest amount of energy:

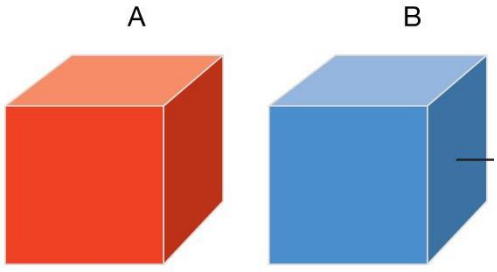
1. An ice cube at 0°C or a recently melted ice cube at 0°C.

2. A puddle of isopropyl alcohol or evaporated isopropyl alcohol (both are at the same temperature).

Element Percentage of Atoms	Ratio	Ratio Compound Model
Compound A 67% oxygen, 33% carbon		
Compound B 80% hydrogen, 20% carbon		
Compound C 50% magnesium, 50% oxygen		
Compound D 40% hydrogen, 40% oxygen, 20% magnesium		

Fill in the missing spaces in the table below: -

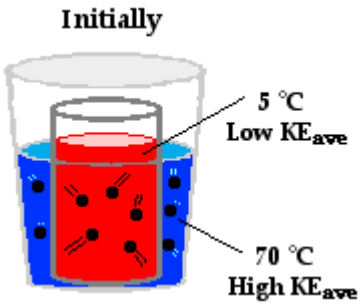
Name of substance	Diagram of molecule	Chemical formula	Element or compound?
Water			
Nitrogen			
Carbon dioxide			
Ammonia			
Sulfur dioxide			
Hydrogen			
Hydrogen chloride			
Oxygen			



1)Which object has more thermal energy ?

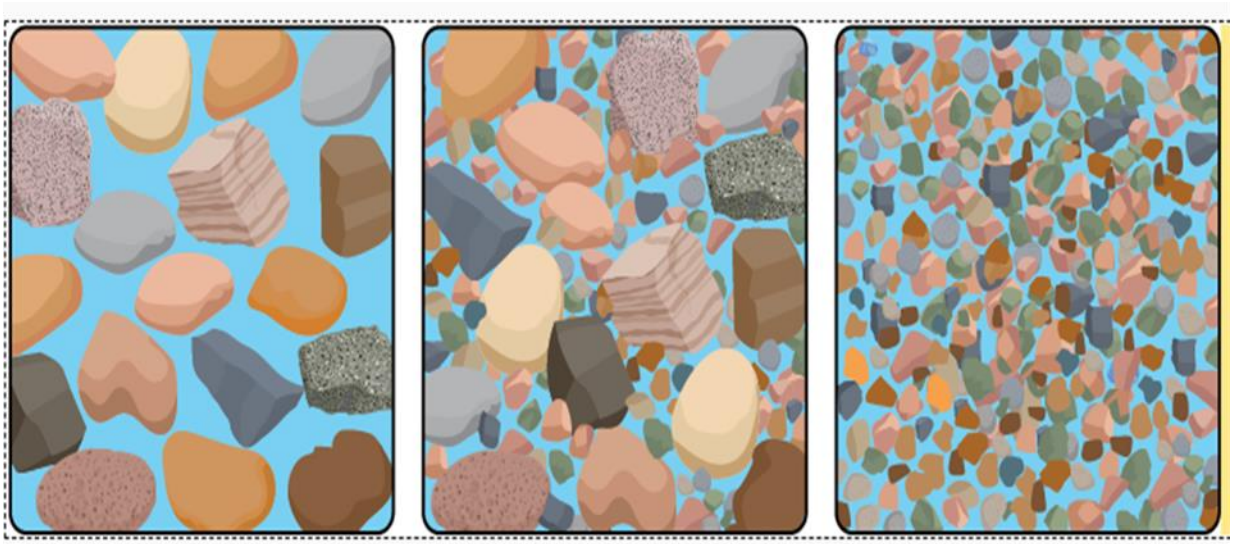
_____

2)Thermal energy transfer from object _____ to _____



Q1. Define porosity and label sediment samples according to their porosity and compare it to permeability.

2. Analysis of world map for resource locations and areas and explain this pattern.



Which sample has the greatest porosity? Explain.

_____

_____.

What do you think the difference between well-sorted and poorly sorted sediment?

_____

_____.

Q2. 

Q2. Identify the general areas you think would contain the most groundwater resources by circling, Explain your reasoning?

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Q3. List natural resources and how humans depends on each?

_____

_____

_____

_____

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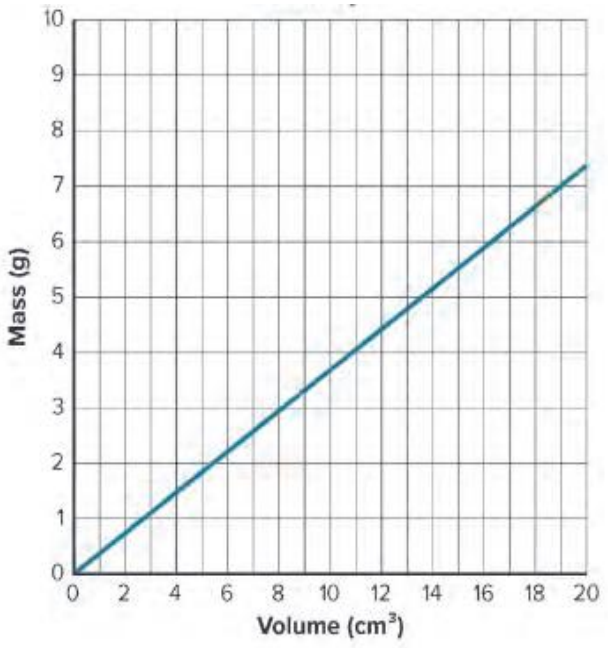
_____

_____.

Q4. Difference between renewable and non-renewable resources

RENEWABLE	NONRENEWABLE

Q5.



Calculate Density from the given graph?

Calculate the density of hammer of mass 350 grams with the following picture?

