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Card 2	Chapter 20 and 21	, _	Card 1	Chapter 20 and 21	
	Answer:			Answer:	
	closed system		Principle of Definite Proportions		
		J L			
Card 4	Chapter 20 and 21		Card 3	Chapter 20 and 21	
	Answer:			Answer:	
L	aw of Conservation of Mass			open system	
		J L			
Card 6	Chapter 20 and 21		Card 5	Chapter 20 and 21	
	Answer:			Answer:	
	Chemical reaction		To follow the "Law of Conservation of Mass"		
			- the reactants have to weigh the same as the products, so there have to be the same number		
			of ator	ms of each element on both sides.	
		J L			
Card 8	Chapter 20 and 21		Card 7	Chapter 20 and 21	
	Answer:			Answer:	
	chemical change			physical change	
	-			-	
		J L			



Card 10 Chapter 20 and 21	Card 9 Chapter 20 and 21
Answer: chemical changes - the substance/s are actually different	Answer: physical changes - they do not change the substance just appearance.
Card 12 Chapter 20 and 21 Answer: left side	Card 11 Chapter 20 and 21 Answer: Both - chewing is physical; the rest of digestion is chemical.
Card 14 Chapter 20 and 21 Answer: 4 (2X2)	Card 13 Chapter 20 and 21 Answer: right side: the arrow points to the products
Card 16 Chapter 20 and 21 Answer:	Card 15 Chapter 20 and 21 Answer:
Produces, yeilds, or makes	3 nitrogens and 9 oxygens = 12 atoms total

Card 17 Chapter 20 and 21	Card 18 Chapter 20 and 21
Question:	Question:
Water boiling: physical or chemical change?	burning wood: physical or chemical change?
Card 19 Chapter 20 and 21	Card 20 Chapter 20 and 21
Question:	Question:
Classify the reaction: one reactant breaks up into two or more products.	Classify the reaction: two or more reactants combine to form one product.
Card 21 Chapter 20 and 21	Card 22 Chapter 20 and 21
Question: Classify the reaction: oxygen is a reactant and water is a product.	Question: Classify the reaction: a compound and element react to form a different compound and element.
Card 23 Chapter 20 and 21	Card 24 Chapter 20 and 21
Question:	Question:
Classify the reaction: two compounds react to form two new compounds.	Where does the energy from a chemical reaction come from?

Card 18	Chapter 20 and 21	Card 17	Chapter 20 and 21
chemical - th	Answer: e wood is now ash and smoke.		Answer: physical - it is still water.
Card 20	Chapter 20 and 21 Answer: addition reaction	Card 19	Chapter 20 and 21 Answer: decomposition reaction
Card 22	Chapter 20 and 21 Answer:	Card 21	Chapter 20 and 21 Answer:
Single	Chapter 20 and 21	Card 23	combustion reaction - always produces heat as fire.
F	Answer: rom the breaking or ing of chemical bonds.		Answer: double displacement reaction.

Card 25 Chapter 20 and 21	Card 26 Chapter 20 and 21
Question:	Question:
A reaction that produces heat (gets hot):	A reaction that absorbs heat (gets cold):
Card 27 Chapter 20 and 21	Card 28 Chapter 20 and 21
Question:	Question:
The reactant that you run out of first in a reaction.	A solid is formed from two liquids. It "falls out":
Card 29 Chapter 20 and 21	Card 30 Chapter 20 and 21
Question:	Question:
When a bike rusts: chemical or physical reaction?	When in a chemical reaction bubbles form, what is really happening?
Card 31 Chapter 20 and 21	Card 32 Chapter 20 and 21
Question:	Question:
When two gases form a liquid: endothermic or exothermic?	When a solid and a liquid or two liquids react and form a gas: endothermic or exothermic?
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Card 26 Chapter 20 and 21	Card 25 Chapter 20 and 21
Answer:	Answer:
endothermic (heat enters)	<u>e x</u> othermic (heat <u>e x</u> its)
Card 28 Chapter 20 and 21	Card 27 Chapter 20 and 21
Card 28 Chapter 20 and 21	Card 27 Chapter 20 and 21
Answer:	Answer:
precipitate	limiting reactant.
Card 30 Chapter 20 and 21	Card 29 Chapter 20 and 21
Answer:	Answer:
A new gas is formed	chemical reaction - rust is not a metal
	anymore: color change.
Card 32 Chapter 20 and 21	Card 31 Chapter 20 and 21
Card 32 Chapter 20 and 21	Card 31 Chapter 20 and 21
Answer:	Answer:
endothermic - it absorbs (requires) heat to change	exothermic - it loses heat when it come
to a gas, so feels cold.	down from gases to liquids.