

Chemical & Physical Changes Practice

Complete the table for each change/event. If a column does not apply, write N/A

Event	Chemical or Physical?	Rationale for C/P choice	Which phase change occurred?	Endothermic or exothermic?
Tearing paper	P	No new compounds formed	N/A	N/A
Digesting food	C	respiration changes compounds	↓	Exo
Plant growing	C	photosynthesis is occurring		Endo
Gasoline engine in operation	C	fuel burns		Exo
Nail polish being taken off by nail polish remover	C			
Perfume evaporating from someone's skin	P	phase changes are physical	Evaporation	Endo
Nitric acid reacting with a copper penny	C	reacting = new compounds	N/A	
Dew forming on the grass on a cool morning	P	H ₂ O changed phase not composition	Condensation	Exo
Rust forming on a car bumper	C	new compound formed	N/A	
Hot dog cooked on the grill	C			
Thousand Island dressing and mayonnaise are mixed to make "secret sauce" for hamburgers	P	No reaction between components	N/A	N/A
Water is boiled in preparation for making pasta	P	phase change occurred	vaporization	Endo
A rock star gets a tattoo on his forehead				
Cream is poured into liquid nitrogen to make dipping dots ice cream	P	phase change, no reaction	solidification	Exo

OUTPUT: Write a story from the perspective of an atom or molecule that is undergoing a change. Include details on whether the change is chemical or physical, if a phase change occurs, if energy is absorbed/released, etc - using specific chemistry vocabulary!