

CONCEPT: ACTIVITY SERIES

- **Single Displacement Reaction:** When one element replacing another element within a compound.
 - **Activity Series Chart** determines if an element can displace another element.
 - An element _____ in the activity series chart will displace an element _____ it in the series.

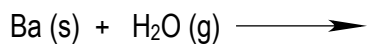
Activity Series Chart		
Can Displace H ₂ from:		
① _____	{	Li K Ba Sr Ca Na
② _____		
③ _____		
① _____		
② _____		
	{	Mg Al Zn Cr
① _____		
	{	Fe Ni Sn Pb
① _____		
		H ₂
	{	Sb Cu Hg Ag Pd Pt Au
CANNOT Displace H ₂		

Activity Increases ↑

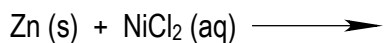
EXAMPLE: A very common example is the displacement of a hydrogen atom by magnesium when reacting with hydrochloric acid. Based on your understanding of the activity series chart, determine the products formed.

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PRACTICE: Based on your understanding of activities determine if a reaction occurs and if so provide the products formed.



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PRACTICE: If the activity of halogens is stated as: Fluorine > Chlorine > Bromine > Iodine, determine if a reaction occurs and if so provide the products formed.

