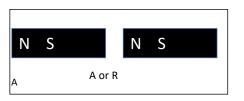
Guided Practice

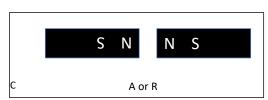
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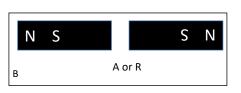
Guided Practice

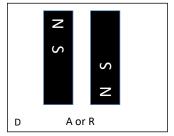
Name:	Date:
Name.	Date.

Directions: Draw arrows to show the force field direction in each of the scenarios. Circle **A** if the force field is an attraction and **R** if the force field is a repulsion.

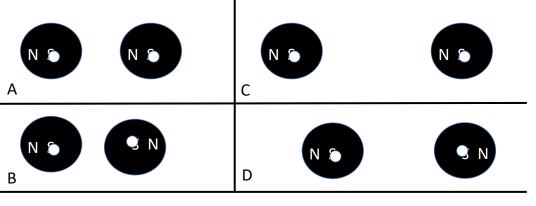








Directions: Rank the following scenarios in order from the greatest magnetic force field to the least force field.





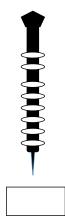


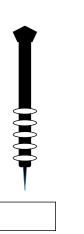
Study the picture to the left. When copper wire connected to a battery is wrapped around a nail, an electromagnetic force is created.

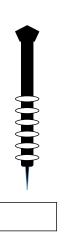
In the pictures below, different amounts of wire are wrapped around each of the nails. When the copper wires were connected to a battery, the four nails picked up one of the following numbers of paper clips.

30 - 45 - 60 - 75

Study the nails and decide which nail picked up which amount of paper clips. Record the appropriate number in each box.









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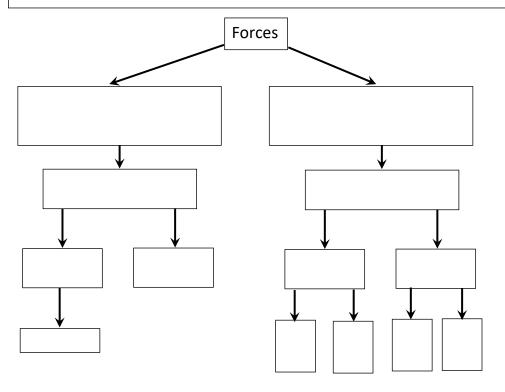
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Guided Practice

Graphic Organizer

Directions: Use the terms in the word bank to complete the graphic organizer below.

WORD BANK:				
More copper wire increases force field	Force created with moving electrons in a copper wire			
Magnetic				
Decrease distance, increases force field	Same poles			
Push	Opposite poles			
i usii	Pull			
Attractions	Pul			
Repulsion Electromagne	Electromagnetic			
	Attraction			





Check Understanding

Directions: Fill in the blanks using the word bank below.

Word Bank

force	decrease	electrons		
repulsion	copper	towards		
Electromagnetic forces are created Adding the amount of		• •		
amount of copper wire will		_		
force field due to magnetic attract		·		
This will push the metal away.				
Directions: Answer the questions below using complete sentences.1. Create a step-by-step list in creating an electromagnet.				
A B C D				
Describe a purpose for an electromagnet in a real-life situation.				