Name	Hour
Name	HOU

Electromagnets

Materials:

- Iron Nail
- Battery Holder
- Wire Paper Clips/Staples
- D battery

Procedure:



1. Wind the wire around the nail in a neat, even pattern. Each set of trials has a different number of winds. Make sure to leave enough wire at the ends so that you can connect it to the battery.



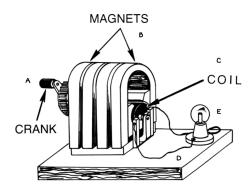
- 2. Connect the wire to the battery holder...disconnect the battery between trials!
- 3. Touch the end to the paper clips to see how many it will lift.
- 4. Repeat for the other trials.

Number of Winds and Paper Clips/Staples Lifted

Number of Winds	# of Paper Clips/Staples Lifted				
	Trial #1	Trial #2	Trial #3	Average	
10					
20					
30					
40					

Claim: what is the relationship between the number of winds and electromagnetic force?				
Evidence/Reasoning: Use two sets of data and units as evidence for this claim.				

winds (coils) apply to a generator?	



How does the information from today's experiment help us understand how	to make the best
generator?	