

Activity 10: Applying Force and Energy Ideas

Name	Date	Class

Idea Power

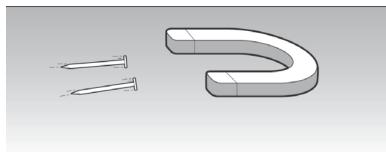
Read the task, then perform an analysis and write an explanation for each of the following tasks. For guidance, use *How To Write an Analysis and Explanation*.

All of the analyses should include the *interacting objects and their interaction type*, and *labeled force arrows* showing the forces being exerted on the object named in the task.

1. Some steel nails and a magnet are on a table. Analyze and explain why the nails speed up toward the magnet. Your analysis should include the *interacting objects and their interaction type*, and *labeled force arrows* showing the forces being exerted on the nails.

nalysis:			
xplanation:			

Draw Force Arrows:



2. Analyze and explain why a w	ater skier has a constant speed.
Explanation:	
Draw Force Arrows:	
3. Analyze and explain why a so	occer ball slows down as it comes in contact with the net.
Explanation:	
Draw Force Arrows:	







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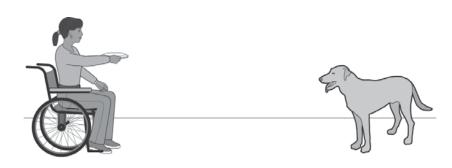
In Questions 4 and 5, the analyses should include the following:

- ullet the $interacting\ objects$
- their interaction type
- labeled force arrows showing the forces being exerted on the flying disc
- an energy diagram for the flying disc

4. Analyze and explain why the flying	disc speeds up whil	le the girl is throwing it.
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An	alysis:
Ex	planation:

Draw Force Arrows:



5. Analyze and explain why the flying disc slows down as it sails through the air.
Analysis:
Explanation:
Draw Force Arrows: