

Step 4	
Draw a force diagram for the balloon system with the clothespin on	
Draw a force diagram for the balloon system when the clothespin is removed.	
What are the components of this system?	

Step 5	
Draw a force diagram for how you predict the payload will affect the movement of the balloon. Share your predictions with a classmate.	
Revise your force diagram to reflect what actually happened when the payload was added.	

Step 6	
Draw a force diagram of the reaction before the cap comes off.	
Draw a force diagram of the reaction as the cap comes off.	
<p>What components are in the system?</p> <p>Which components correspond with parts of the JSWT rocket?</p>	
If you tried additional methods, revise your force diagram to show a before and after reaction.	

What was happening when the canister was inverted, but not moving? What does this remind you of in the JWST launch?	
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<p>Step 7:</p> <p>What patterns in motion do you notice in your force diagrams of the balloon, Alka-seltzer rocket, and the JWST?</p>
