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| Disciplinary Core Idea | Artifact | Selected Trade Book |
| PSA2.A: Forces and Motion* Pushing or pulling on an object can change the speed or direction of its motion and stop or start it.

PS3.C: Relationship Between Energy and Forces* A bigger push or pull makes things speed up or slow down more quickly.
 | Rollercoaster | Incredible Inventions by Lee Bennett HopkinsRoller Coasters: From Concept to Consumer by Kevin CunninghamHow to Design the World’s Best Rollercoaster by Paul MasonHow Stuff Works: Roller Coaster by The Brothers |
| PSA2.A: Forces and Motion* Pushing or pulling on an object can change the speed or direction of its motion and stop or start it.
 | SuperSoaker | Whoosh!: Lonnie Johnson’s Super-Soaking Stream of Inventions by Chris BartonSuper Soaker Inventor Lonnie Anderson by Heather E. Schwartz |
| PSA2.A: Forces and Motion* Pushes and pulls can have different strengths and directions
* Pushing or pulling on an object can change the speed or direction of its motion and stop or start it.
 | Bicycle | The Story of Inventions by Anna ClaybourneBicycles (Made by Hand) by Patricia LakinFrom Steel to Bicycle (Start to Finish: Sports Gear) by Robin NelsonBicycles (How do They Make That?) by Rachel Lynette |
| PSA2.A: Forces and Motion* Pushes and pulls can have different strengths and directions
* Pushing or pulling on an object can change the speed or direction of its motion and stop or start it.

PS3.C: Relationship Between Energy and Forces* A bigger push or pull makes things speed up or slow down more quickly.
 | Skateboards | Inventing the Skateboard (The Spark of Invention) by Christine Zuchora-WalskeSkateboards (Made by Hand) by Patricia LakinHow do They Work? Scooters and Skateboards by Wendy Sadler |