

Grade 3 - Mister C Live: The World in Motion

PA STEELS Standards	3.2.3.A 3.2.3.B 3.5.3-5.M 3.5.3-5.P
Big Ideas	- Forces cause motion. - Motion follows patterns. - Engineers redesign solutions.

Essential Questions	- How do forces and motion affect our world? - How do engineers improve designs through testing?
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Academic Vocabulary	motion, force, friction, gravity, inertia, speed, energy, engineering design
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Instructional Considerations

DIY Hovercraft

Standards	Connection to Activity
3.2.3.B	Investigate forces and friction affecting motion
3.5.3-5.M	Use engineering design process

Discussion Questions	- What did you observe? - What forces were acting? - How could the design be improved?
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DIY Centripetal Force Board

Standards	Connection to Activity
3.2.3.A	Observe motion patterns
3.2.3.B	Investigate forces in circular motion

Discussion Questions

- What did you observe?
- What forces were acting?
- How could the design be improved?

DIY Egg Drop Tower

Standards	Connection to Activity
3.2.3.B	Investigate gravity and forces
3.5.3-5.P	Evaluate design outcomes

Discussion Questions

- What did you observe?
- What forces were acting?
- How could the design be improved?