

# OUTRUN GRAVITY

During its first second of decent, an object travels 16 feet, thanks to the consistent pull of gravity. Using only leg power (thrust), can someone travel faster than gravity? Do you think you can run 16 feet in less than one second?

## ACTIVITY



## METHOD

- 1 Mark off a 16 ft. area on the floor. Use masking tape to clearly show the starting and finish lines.
- 2 Begin the timer as the runner crosses the starting line and stopping the timer as the finish line is crossed.
- 3 Provide immediate feedback of "seconds traveled" as the runner crosses the finish line.



*You will need...*

- MASKING TAPE
- TIMER

CUT AND  
INSERT  
THIS ACTIVITY  
INTO YOUR  
COMIC BOOK

AVAILABLE  
ONLINE

## WHY?

Thrust is the force that propels an object in the direction of motion. The greater the thrust, the faster an object moves. But gravity is always there to slow things down, so it is considered an opposite force to thrust. No matter how much thrust we have when we run, we all have to work against gravity!



**TOTALLY  
THRILLING  
SCIENCE**

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