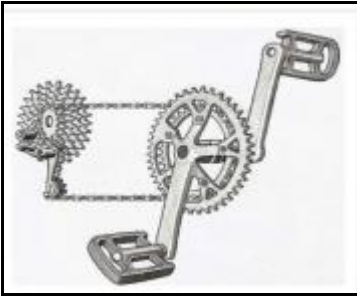


Recommended Reading for “Pedal Power!”



The Science of Bikes

Energy in all forms cannot be created or destroyed, energy can only change from one form to another. Learn how bikes use energy to move, and how bike parts work together to accomplish this movement.

<https://files.nc.gov/ncparks/nc-culture-falls-lake-bike-science-discover-more.pdf>



On Your Bikes!

In this activity, students measure speed and drag for a person on a bike to determine the effects of aerodynamic drag and rolling resistance on a cyclist’s maximum speed.

<https://www.sciencelearn.org.nz/resources/1352-on-your-bikes>

Bicycle Jeopardy

Your choices behind the handlebars make a difference! Here’s everything you need to play “Bicycle Jeopardy.” Contestants select the category, answer questions, and tally points.

<https://www.bike.nyc/wp-content/uploads/2020/04/2020-Bike-Jeopardy-Middle-and-High-School-FOR-TEACHERS.pdf>

Traffic Laws For Cyclists	What’s Wrong With This Picture?	Crash Prevention	Freedom Ride
10	10	10	10
20	20	20	20
30	30	30	30
40	40	40	40



Bicycle Centrifuge

A common use for a centrifuge is to separate blood into red blood cells (which gather at the bottom) and white blood cells and plasma at the top. This hands-on activity demonstrates how to make your own centrifuge using a bike.

<https://www.science-sparks.com/bicycle-centrifuge/>

Newton’s Second Law

Provide two identical bicycles that each have a basket. Keep one basket empty. Add bricks (mass) to the other basket. Invite students to ride each bicycle and note the difference in force needed to propel the bikes.

<https://blog.indypl.org/kids/newtons-second-law-of-motion/>

