

# Ames Public Library @HOME Activities

## Gravity

Gravity on Earth is an invisible force that pulls objects towards the center of the Earth. Without gravity we would float away like astronauts do in space, where there is very little gravity. Gravity is invisible but very important to our life on Earth.

See a related video on the Library's YouTube Channel at <http://bit.ly/APLvideos>.

### Books and Media:

Title	Author / Performer	Call Number
<i>Gravity</i>	Gaertner, Meg	ETR 531 GAE
<i>The Ups and Downs of Gravity</i>	Adler, David	J 531 ADL
<i>Gravity</i>	Kurzius, Alexa	J 531 KUR
<i>Science Experiments With Gravity and Motion</i>	Kuskowski, Alex	J 531 KUS
<i>You Wouldn't Want to Live Without Gravity</i>	Rooney, Anne	J 531 ROO
<i>Gravity is a Mystery</i>	Branley, Franklyn	J 531.14 BRA
<i>I Fall Eown</i>	Cobb, Vicki	J 531.14 COB
<i>Zero Gravity</i>	Skurzynski, Gloria	J 531.14 SKU
<i>Gravity Explained</i>	Tolish, Alexander	J 531.14 TOL
<i>Gravity: Simple Experiments for Young Scientists</i>	White, Laurence	J 531.14 WHI
<i>Gravity</i>	Pettiford, Rebecca	J KIT 531 PET
<i>What is Gravity</i>	Trumbauer, Lisa	(Bridges - eaudio)
<i>Rock 'n Learn (DVD) Physical Science</i>	(DVD)	J 530 (DVD) ROC
<i>Bill Nye the Science Guy (DVD): Gravity</i>	Nye, Bill	J 531.14 (DVD) NYE
<i>Checkout Stem: Groovy Gravity</i>	APL	J STEM GRO

### Websites:

URL
<a href="https://spaceplace.nasa.gov/what-is-gravity/en/">https://spaceplace.nasa.gov/what-is-gravity/en/</a>
<a href="https://www.ducksters.com/science/gravity.php">https://www.ducksters.com/science/gravity.php</a>

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## Take Away Kit: Yo-yo

### Bag Contents:

- 1 yo-yo

### How to play with your yo-yo:

The yo-yo has a long yarn attached to it.

One end of this yarn is looped to form a ring.

Slip the loop around your middle finger around your first knuckle, near the tip of your finger.

Swing your arm down, releasing the yo-yo and spreading your fingers.

Give it a sharp tug when the yo-yo is fully extended to bring it back up.

Repeat these steps for more practice. The more you practice the better you will be at controlling the yo-yo.

If you need help, ask a parent or trusted adult; you can also watch the At Home Activity video on yo-yos on the library's YouTube Channel at <http://bit.ly/APLvideos>.

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## Vocabulary

Gravity - The force that attracts a body towards the center of the Earth.

Motion - The action or process of moving or being moved.

Force - An influence that tends to produce a change in the speed or direction of motion of something.

Orbit - The path taken by one object circling around another.

Mass – The amount of physical matter or substance that makes up an object.

Matter - The material substance that occupies space and has mass.

Distance - The space between 2 points.

Weight – How heavy an object is, mostly found out by a scale.