

Kid Scoop

THE AWARD-WINNING PRINT & ONLINE FAMILY FEATURE



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Q: How high will a basketball bounce when dropped from shoulder height?

- a. back to shoulder height
- b. less than shoulder height
- c. higher than shoulder height

If you answered "b" you are right! When a ball is dropped to the ground, it comes back up almost to the point it was dropped from, but not quite.

How many differences can you spot between these two players?

STEM Basketball

When a basketball is held above the ground, it has a lot of **potential energy** and no **kinetic energy**. As it falls, it starts losing its potential energy and gets kinetic energy.

When the ball hits the ground, it has lots of kinetic energy. The friction against the ground slows the ball down, but it also slightly heats the ball. This is **thermal energy**.

The ball bounces back up but to a lower height than where it started. The original potential energy was transformed into thermal energy and kinetic energy. And that's just the way the ball bounces.

KINETIC ENERGY

The energy of motion. Anything that is moving has kinetic energy, and the faster it is moving, the more kinetic energy.

POTENTIAL ENERGY

An object high above the ground has potential energy because of the work it took to get it there and the work it will do when it falls.

THERMAL ENERGY

Thermal energy is the name for energy that comes from the temperature of an object.

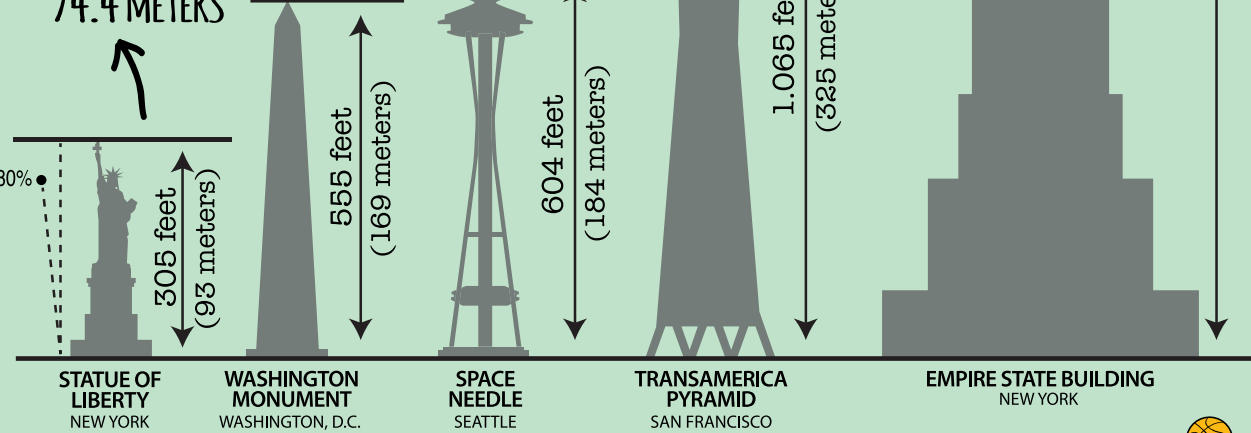
SCIENTIST'S NOTEBOOK

THE BIG DROP

Imagine dropping a basketball from the top of these famous structures. If the ball bounces 80% of the way back up toward the top, how many feet/meters high would the ball travel for each? (Multiply each structure's height by .8 to discover the answers. The first one is done for you.)

$$\begin{array}{r} 305 \\ \times .8 \\ \hline 244 \text{ FEET} \end{array}$$

$$\begin{array}{r} 93 \\ \times .8 \\ \hline 74.4 \text{ METERS} \end{array}$$



Two-Minute Drill

How many basketballs can you find on this page in two minutes? Now have a friend try. Who found more?

Basketball Math

Look through the newspaper for final scores of basketball games. Calculate how many more points the winning team earned than the losing team.

Standards Link: Research: Use the newspaper to locate information.

Kid Scoop Puzzler

Circle the basketball that should come next to continue the pattern in each row.

Standards Link: Math: Extend simple patterns.

Double Double Word Search

- POTENTIAL
- SHOULDER
- THERMAL
- KINETIC
- BOUNCE
- ENERGY
- GROUND
- MOTION
- HEATS
- COURT
- THREE
- BALL
- DUNK
- WORK

Find the words in the puzzle. Then look for each word in this week's Kid Scoop stories and activities.

I	N	O	I	T	O	M	P	S	T
S	A	C	T	H	B	Y	O	H	O
H	U	I	H	E	G	W	T	O	D
E	T	T	R	R	O	E	U	R	
A	C	E	E	M	O	R	N	L	E
T	E	N	E	A	U	K	T	D	T
S	E	I	U	L	N	N	I	E	T
E	R	K	G	O	D	Y	A	R	A
T	R	U	O	C	B	A	L	L	M

Standards Link: Letter sequencing. Recognized identical words. Skim and scan reading. Recall spelling patterns.

FROM THE LESSON LIBRARY

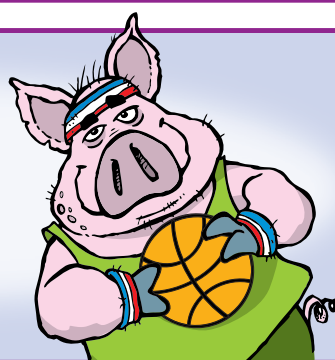
Energy Scavenger Hunt

Look through the newspaper for five examples of energy being created or used. Discuss whether or not the energy is kinetic, potential or thermal.

Standards Link: Physical Education: Use a variety of basic and advanced movement forms.

Why is it no fun to play basketball with a pig?

ANSWER: Because they always hog the ball.



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