

LEARNING

ACTIVITIES



Kingdom Quest Laser Ride

Jump into your chariot and use your laser skills to zap trolls and skeletons. The better your aim, the higher your score!

Record your score & the scores of two of your friends below. Then, find the median score and circle it.

Hint: The median score is the middle score when they're in numerical order.

LEGO® Racers: Build & Test

Use the special wheels and axles in the LEGO® Racers: Build & Test zone to complete the following challenges.

Create a car that's built for **SPEED** and race it against your friends on our track. Keep trying until you build the fastest car!

Tip from Master Model Builder Clint: Add more weight just in front of your back wheels to get the speed you need!



Now, build a car that's made to **LAST**! Launch it down the test ramp to see if it makes it to the bottom of the track in one piece. Keep trying until your car doesn't lose any bricks.

Tip from Master Model Builder Clint: Stagger your LEGO® bricks ... think of a brick wall!

Now, build a car that's made to **LAST**! Launch it down the test ramp to see if it makes it to the bottom of the track in one piece. Keep trying until your car doesn't lose any bricks.

Tip from Master Model Builder Clint: Stagger your LEGO® bricks ... think of a brick wall!



Creative Workshop

Visit the Creative Workshop and take a class from an expert LEGO® builder! Write one tip you learned from them below:



LEGO® Friends

Our friend, Andrea, wants to make some improvements to some of the buildings in Heartlake City but needs to know measurements before she starts! Can you help her?

If one LEGO® knob is equal to one unit of length, what is the perimeter of the News Building in units? Write your answer in the space below.

Hint: The perimeter is the sum of the length of all of the sides of a shape, object or building.

What is the perimeter? _____

If one LEGO® knob is equal to one unit square, what is the area of the purple roof on the Pizza Parlor in units square?

Hint: The area is the amount of space within a shape, object or building.

What is the area? _____

If one LEGO® brick is one unit tall, build a measuring stick that is 10 units tall. Then, use your measuring stick to estimate Andrea's height.

How tall is our friend Andrea? _____

LEGO® Earthquake Tables

An earthquake is the perceptible shaking of the surface of the Earth that is *usually* caused by the movement of tectonic plates. It's very important to build sturdy buildings to keep people safe during earthquakes.

Try to build a structure that is at least 12 bricks high that withstands strong (red) tremors for at least 10 seconds.

What level of tremors did your building withstand before toppling over? Circle your answer below.

LOW (GREEN) **MODERATE (YELLOW)** **STRONG (RED)**



CONGRATULATIONS!

You've completed the LEGOLAND® Discovery Centre Scout activities!