

Kingdom Quest

Hop aboard your chariot on the Kingdom Quest ride to rescue the Princess!

Challenge

Hop aboard your chariot and zap the trolls and skeletons with your LEGO blunderbuss!

The counter in front of your seat keeps score!

Write down the scores:

Score 1:

Score 2:

Score 3:

Score 4:

Score 5:

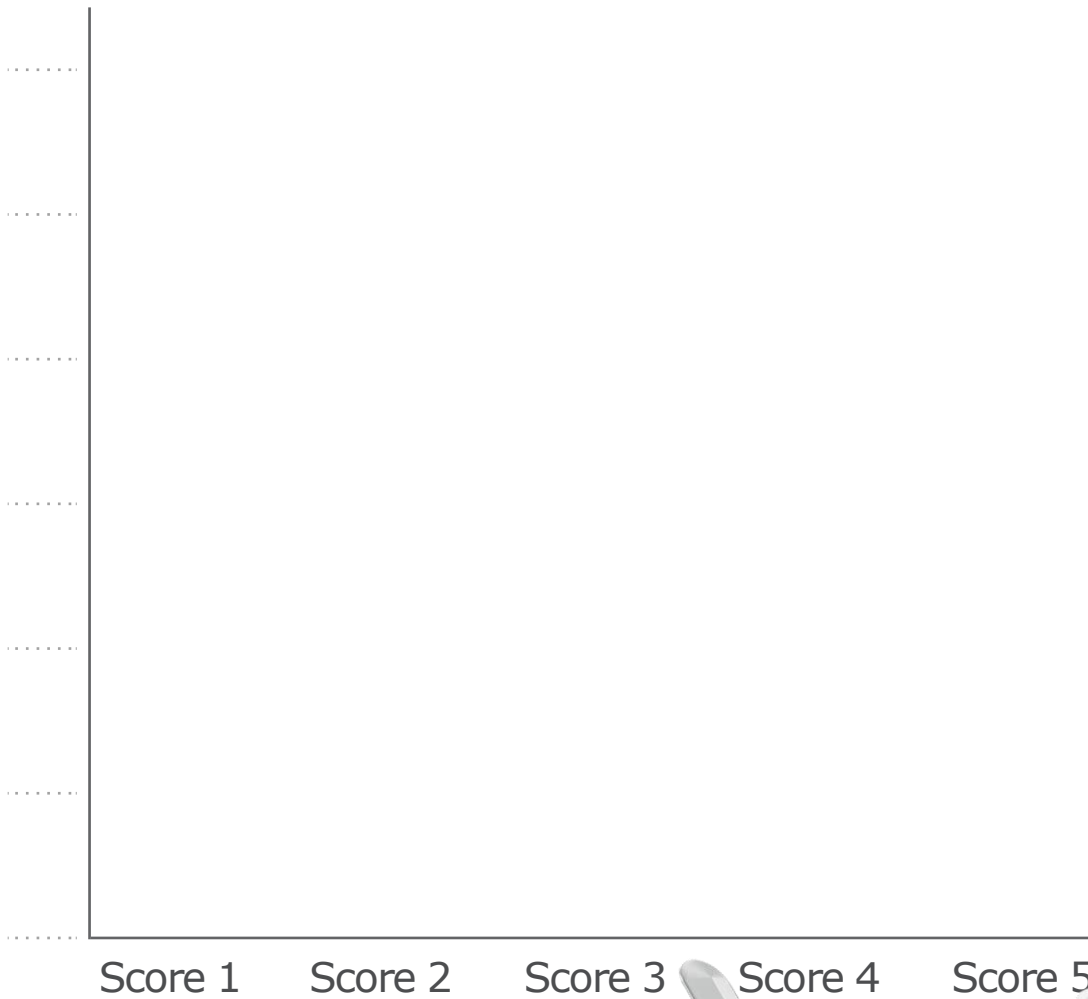
Winner:



Kingdom Quest

Back at school

Draw a graph that demonstrates the five scores



Miniland Arizona

Explore MINILAND – a miniature LEGO replica of Arizona landmarks made from over 1.5 million LEGO bricks!

Challenge

What can you see in Miniland (please tick)

- A sports game
- A bank
- A motel
- An airport
- A river

For extra points: name the famous place or landmark:

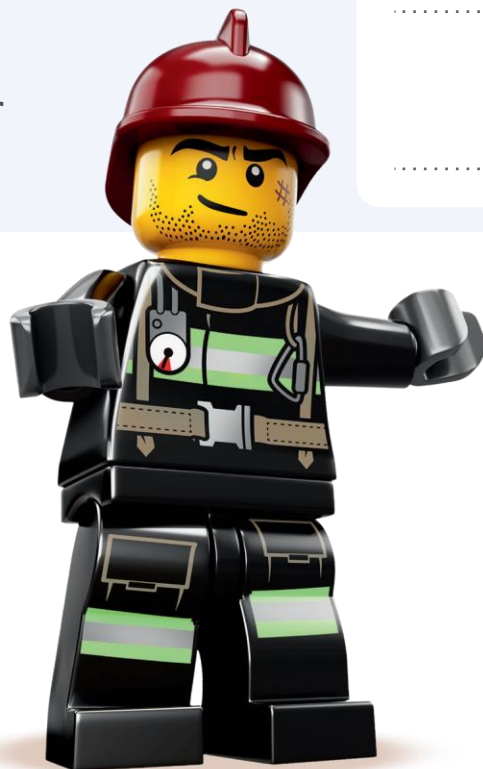
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Miniland Arizona

Back at school

If you had to build a Mini Arizona out of LEGO bricks, what are the top 5 landmarks you would include?

Draw them below.



Merlin's Apprentice



Welcome to Merlin's magical potions chamber!
To cast Merlin's magical spell, pedal as fast as you can to fly high in the sky!
The faster you pedal the higher you'll go!

Challenge

Merlin and his apprentice create magical potions to cast spells! Can you write a story about Merlin and his apprentice and a spell going wrong?

- Step 1: Decide on your story's lesson, something the reader learns when they finish the story.
- Step 2: Name the apprentice and describe them
- Step 3: Create a silly accident
- Step 4: Think about the magical element
- Step 5: Describe Merlin's magical potions chamber
- Step 6: Write a happy ending

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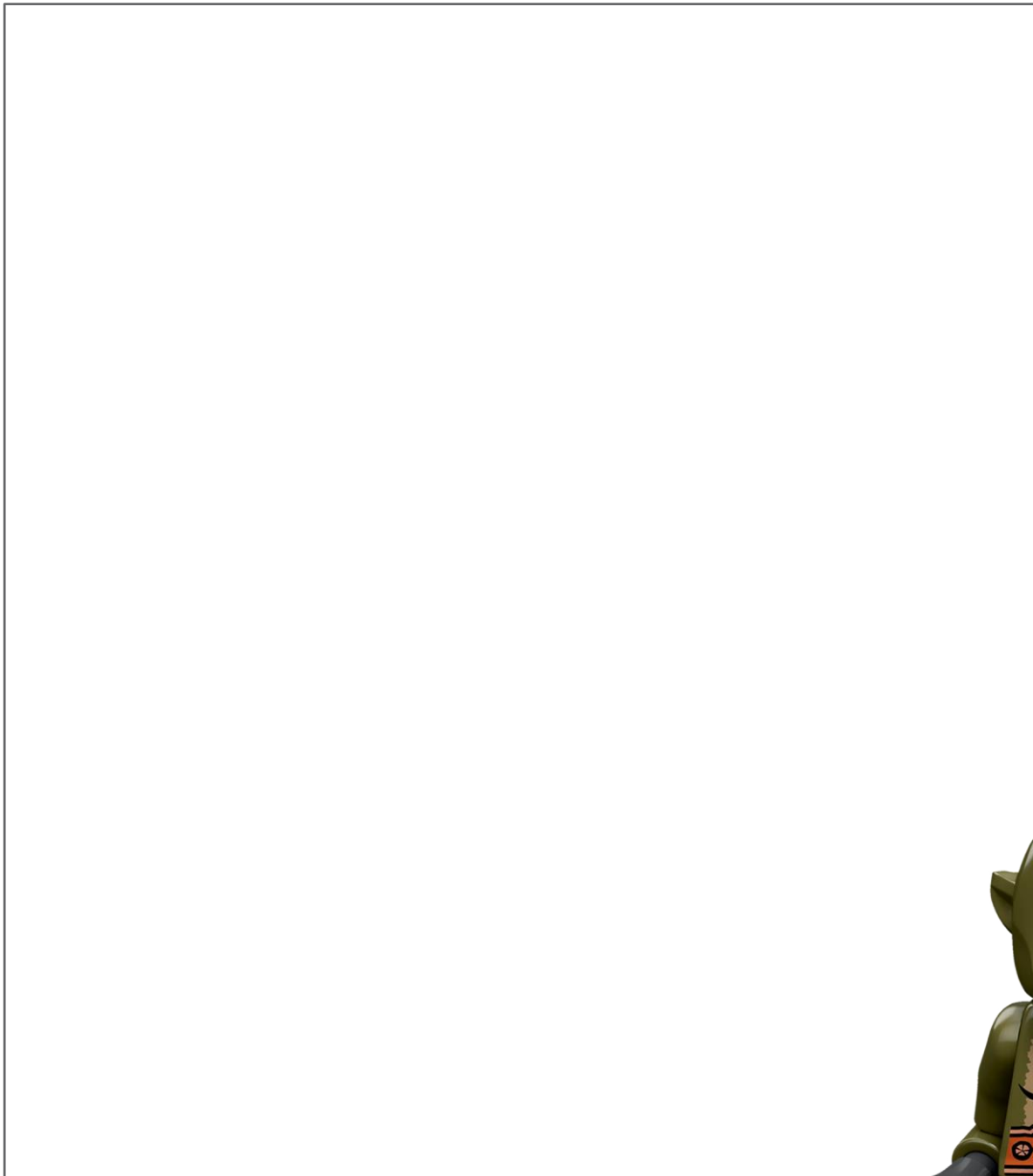
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Merlins Apprentice

Back at school

Draw a picture of Merlin and his apprentice to go with your story.



Shake Tables



Ever tried to build the strongest building you can from LEGO bricks?

Take on the challenge at our Earthquake Tables. Test the strength of your brick tower when the tables start to shake.

Challenge

Try five different shapes and sizes and see which one lasts the longest.

Remember a good test means trying different shapes and styles!

Number of bricks wide		Number of bricks tall		Total bricks	Did it fall (Y/N)
<input type="text"/>	x	<input type="text"/>	=	<input type="text"/>	<input type="text"/>
<input type="text"/>	x	<input type="text"/>	=	<input type="text"/>	<input type="text"/>
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<input type="text"/>	x	<input type="text"/>	=	<input type="text"/>	<input type="text"/>
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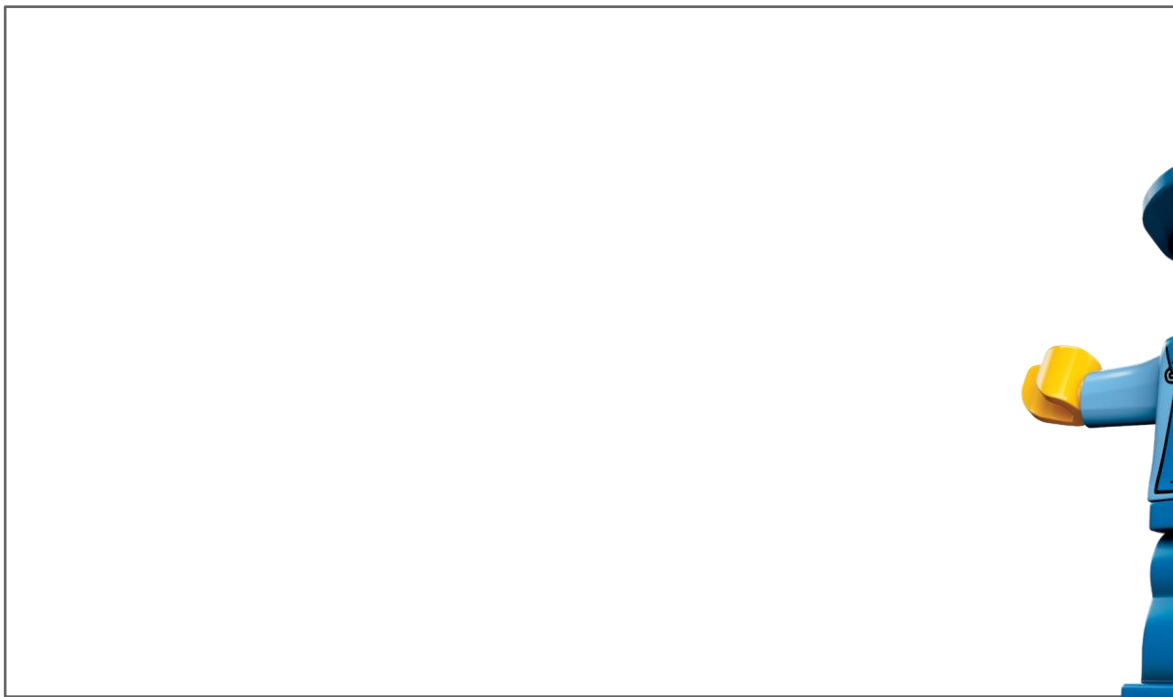
Shake Tables

Back at school

Draw a building that is strong



Draw a building that is weak



Build and Test

Create an ultra-fast LEGO racing car at Build & Test. Race your car on the ramp and see who has the fastest time!

Ready. Set. GO!

Challenge

Build cars and then race them on the ramp. Try and make sure everyone is building different types of cars so you can test which cars are the fastest.

Tick which design features makes a car go faster:

- Big wheels
- Small wheels
- Long body
- Short body
- Low body
- Tall body
- Wide body
- Thin body
- Dark colored bricks
- Light colored bricks
- Windshield
- No windshield
- Heavy car
- Light car



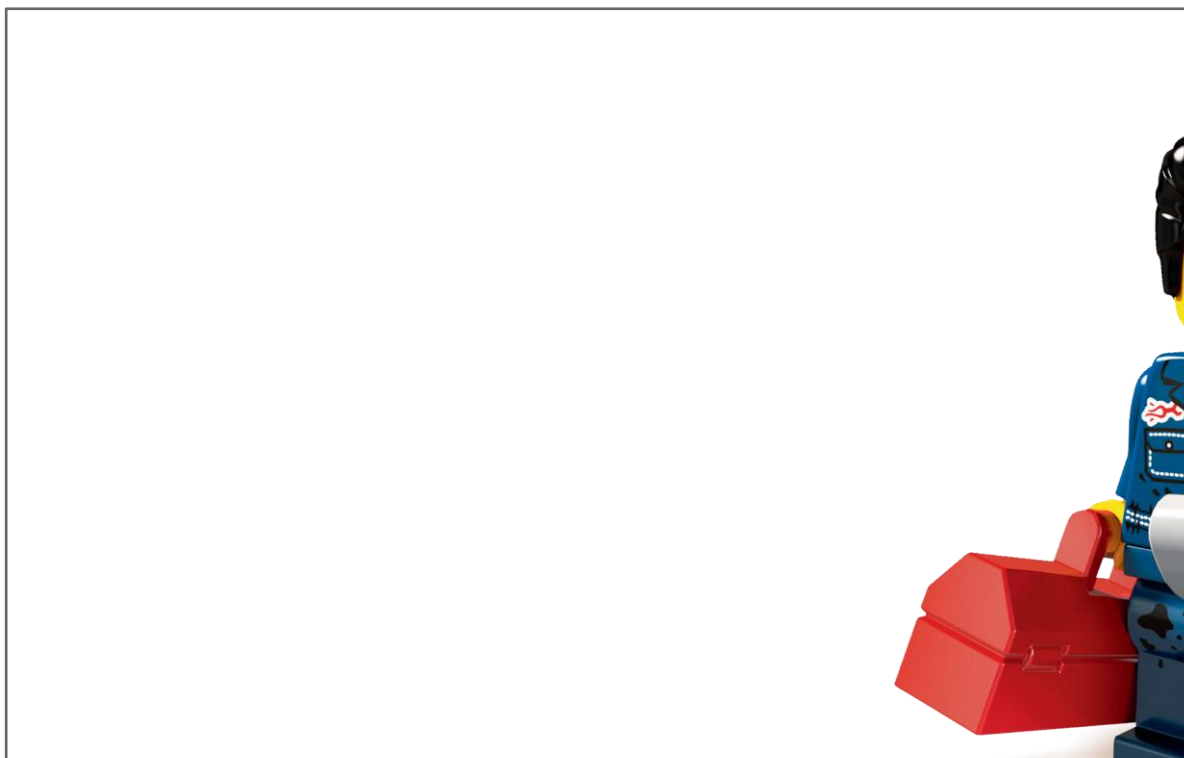
Build and Test

Back at school

Review the data from your test and write down the top 5 things needed for a fast car:

1.
2.
3.
4.
5.

Draw the car featuring the five most important design elements:



THE ULTIMATE LEGO® INDOOR PLAYGROUND



TEACHERS NOTES - LEVEL 2

LEGOLAND Discovery Center Scavenger Hunt!



Welcome

Welcome to LEGOLAND Discovery Center Arizona

The Legoland Discovery Center Student Scavenger Hunt has been designed to add fun, focused and interactive learning while on a self-guided tour through the attraction.

The Scavenger Hunt incorporates some of the most engaging and interactive rides and play zones at LEGOLAND Discovery center. They can be visited in any order.

It is recommended that your class be divided into smaller groups – each with a teacher or parent teacher accompanying them.



Kingdom Quest

Kingdom Quest is a ride in which students and teachers board carriages and are transported through a series of interactive screens. Each person in the carriage is provided with a "blunderbuss".



Please note:

- Children must be able to walk to ride.
- Children under 4 ft 3 in must ride with an adult.
- Closed toe shoes must be worn to ride on Kingdom Quest.
- For safety, guests must be in good health without injuries that could be aggravated by the attraction. Expectant mothers, and guests with casts or broken/injured bones should not ride.

Challenge

Students are instructed to zap the bad guys with the blunderbuss – this is done by pointing and shooting. A score appears on a screen in front of each student which tallies their success in zapping the bad guys.

At the conclusion of the ride, students must remember their score.

After exiting the carriage, students must write down their own score.

Students are then tasked with writing down the scores of other people in their carriage.

Back at school

Students are encouraged to think about the different ways they can represent this data and are to explore how the same data can be represented in different ways. They are challenged to represent the data in a grid form.

They can also reflect on whether Kingdom Quest was fair:

Did the position of the seating change how easy it was to shoot?

If students didn't listen to the instructions does that change how easy the challenge was? If they

had visited LEGOLAND Discovery Center before, did that give them an advantage?

Miniland Arizona

MINILAND is a miniature replica of Arizona featuring the city's most loved buildings and landmarks

Fun Facts

- All the MINILAND models took a total of 5000 hours to design and build.
- MINILAND is made up of over 1.5 Million LEGO Bricks.
- There are over 3000 Minifigures



Challenge

Students are challenged to explore Miniland and identify the activities located in specific locations, such as shopping, sport, and transport. They are asked to find 5 key activities and name the landmark for extra points.

Find a sports game

Answer: Chase Field or Cardinals Stadium

Find a bank

Answer: Chase Bank in Downtown Phoenix

Find a motel

Answer: Teepee Motel in Desert display

Find an airport

Answer: Sky Harbor Airport

Find a river: Answer:

Colorado River in Grand Canyon

Back at school

Students are challenged to select 5 landmarks to include in their dream version of Miniland Arizona. They are then asked to draw them.

Things to think about:

What makes a landmark culturally or spiritually significant?

Why would a building be created to acknowledge important moments in our history?

Is Miniland Arizona culturally diverse? Does it consider different cultural groups?

How does a landmark represent people in the community?

Merlin's Apprentice

Merlin's Apprentice is a ride in which students sit in and rotate at speed. Students can choose to use the pedals for their chairs to rise up into the air. Stopping peddling will descend the chair.



Please note:

- Children must be a minimum of 3ft tall to ride.
- Children between 3ft and 4 ft 3 in must ride with an adult.
- Closed toe shoes must be worn to ride on Merlin's Apprentice.
- For safety, guests must be in good health without injuries that could be aggravated by the attraction. Expectant mothers, and guests with broken/injured bones, casts, moon boots or any other supportive braces cannot ride.
- Students MUST NOT undo their belt buckles and disembark until helped by a team member

Challenge

Inspired by the ride and the design features on the walls and the carriages, students are encouraged to write a story about Merlin and his apprentice and a spell going wrong. They are provided with these story writing tips:

- Step 1: Decide on your story's lesson, something the reader learns when they finish the story.
- Step 2: Name the apprentice and describe them
- Step 3: Create a silly accident
- Step 4: Think about the magical element
- Step 5: Describe Merlin's magical potions chamber
- Step 6: Write a happy ending

Back at school

Students are challenged with creating an illustration to go with their story.

Earthquake Tables

The Earthquake Tables feature a build plate for building and a control panel which students can turn to “shake” the table at increasing strength.

Challenge

Students are challenged to build five different buildings of different shapes and sizes and then trial and test to see which type of buildings is the most structurally sound.

Students are tasked with writing down the number of bricks used in length and height, then use multiplication to determine the total number of bricks used.



Back at school

Students are asked to draw a picture of a building that is structurally strong and draw a picture of a building that is structurally weak.

They are encouraged to think about using these drawings to highlight the specific features that make a building strong or weak and should act as a visual representation of their learnings.

Build and Test

In the Build and Test area, students will find brick pits featuring car pieces including wheels, body pieces, and windshields.

They can then use two different ramps to test the durability and speed of their cars. One of the ramps features a button that lowers the start ramp, including a countdown. The counter at the base then calculates the speed of the fastest vehicle.



Challenge

Students must build cars and race them against other students' builds. Students need to observe which cars win the race and critically consider what design features are more prominent in the winning cars. They are then asked to tick which features listed in their booklet help the cars go faster.

Back at school

Students are challenged to review the data from build and test and determine the design features needed for a fast car. They are asked to list the top 5 features.

They are then tasked with creating a visual design of the car featuring the five most important design elements.