

## Las Vegas Project Kit

Congratulations! You're going to Las Vegas! Use these project ideas to enrich your educational experience. Read through them before you go to make sure you understand the terms and concepts, and to help you determine if you want to expand upon any of them. **You'll find fun facts and printable worksheets at the end of this packet.**

a- elementary level activity    b- middle school level activity    c- high school level activity

### **Language Arts**

Las Vegas is a city of lights and shows! Language is simply the way we communicate, and in Las Vegas there are many unspoken ways in which communication occurs. Pay attention to the non-verbal and non-written ways the city is speaking to you.

- a. Draw a picture about what you see. Talk or write about it. What is it telling you?
- b. Write a few short paragraphs about what you see. Talk about it. What is it telling you?
- c. Write a short essay about what you see. Discuss ways in which we are influenced by the world around us without verbal and written language. What are ways that you can communicate with others without using words? Why is it important that we pay attention to all of the ways we are communicating with others?

Materials required: Notebook, pen/pencil

Submission: A copy of your writings/drawing, and any pictures/videos

Teaching or learning notes:

### **Applied Math**

People eat a lot! How many places are there to eat in Las Vegas? How many people do they serve every day? How much food is consumed and at what cost?

- a. Choose one restaurant to analyze. Estimate how many people are there. How much is the average meal? How much money did the restaurant make just while you were there? Do they get to keep all of that money? Why or why not?
- b. Choose one restaurant to analyze. Estimate how many people they serve in a day. How much is the average meal? How much money does the restaurant make in a day? Do they get to keep all of that money? Why or why not?
- c. Choose one restaurant to analyze. Estimate how many people they serve in a day. Estimate the total number of restaurants in Las Vegas and the total number of people served in one day. How many meals are prepared in one day? One week? One month? Every year? What is the average meal cost? How much is spent on food in Las Vegas in a year?

Materials required: Notebook, pen/pencil, calculator or smartphone (optional)

Submission: Your calculations, estimations, and conclusions, and any pictures/videos

Teaching or learning notes:

## **Science**

Whether it's a thrilling ride, an exhibition, or a magic show, Las Vegas is full of science. You'll find many example of science from astronomy to engineering to biology and more. Be on the look out!

- a. Find an animal and write or draw about it.
- b. Go on a ride and write about your experience and the science behind how the ride works. You might need to do a little extra research on principles like gravity and inertia.
- c. Find a good example of one science principle (i.e. gravity, bernoulli's, boyle's, inertia, thermodynamics, newtonian laws of physics, etc). Draw or take a picture of it, labelling important parts. Write a brief essay describing the science behind it and why it is important to its location.

Materials required: Notebook, pen/pencil

Submission: A copy of your drawings, diagrams, maps, or designs, and any pictures/videos

Teaching or learning notes:

## **Social Studies**

There can be a lot of people in Las Vegas! How do they handle the crowds? What affect does the layout of the city and buildings have on the movement of people? How does the design help the vistors have an enjoyable time? Can you see these same principles in use in the planning of over large cities or social environments?

- a. Notice how many people are at one location. Discuss some of the things they do to control crowding and help make each guest's experience pleasurable. Write down the techniques you see and how often you see them being used.
- b. Analyze the layout of the city and if/why certain features were designed with the purpose of managing crowds. Use a map, and write down what you find.
- c. Discuss crowd control and analyze the layout of the city or a particular building. Discuss the things you've seen in light of larger social environments you've been in. How universal are these techniques? What are your ideas for improving guest experience in Las Vegas?

Materials required: Notebook, pen/pencil, park map

Submission: A copy of your writings/drawings, and any pictures/videos

Teaching or learning notes:

# FUN FACTS

- Howard Hughes stayed at the Desert Inn for so long that he was asked to leave. He bought the hotel.
- Camels were used as pack animals in Nevada as late as 1870.
- More than 41 million people visit Las Vegas each year.
- Seventeen of the 20 biggest hotels in the U.S. are in Las Vegas.
- The famous Las Vegas Strip is not located within the city limits of Las Vegas. The strip actually comes under the jurisdiction of Clark County.
- At 1,149 feet, the Stratosphere is the tallest observation tower in the United States and the second tallest free-standing structure west of the Mississippi River.
- With its millions of lights, Las Vegas is considered the brightest spot on Earth.
- Annual rainfall in Las Vegas totals slightly more than four inches.
- There's estimated to be at least 1,000 people living beneath Vegas in underground tunnels.
- It would take 288 years for one person to spend one night in every hotel room in Las Vegas.
- Water structures in Las Vegas, like fountains and man-made lakes, use something called grey-water, which is recycled water from sinks, bathtubs and showers.
- The Bronze lion outside of the MGM Grand Hotel weighs 50 tons, making it the largest bronze sculpture in the country.
- The Mirage Hotel's iconic golden windows actually got their coloring from real gold dust.
- The Luxor Las Vegas' Sphinx, a re-creation of the Great Sphinx of Giza, is 101 feet high and larger than the original. The electric bill for the Luxor pyramid's shining light is \$51 per hour.
- The shrimp consumption in Las Vegas is over 60,000 pounds per day, higher than the rest of the nation combined.

# Las Vegas

1. Draw a picture of the coolest thing you saw in Las Vegas.



2. Describe 4 different methods of transportation you saw.

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3. What is one thing you learned about Nevada?

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4. Describe or draw your favorite building you saw.



5. Draw or describe your favorite part of your trip.



6. What is one thing you learned about the desert?

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BONUS:

Briefly describe the history of Las Vegas. When was it started? How did it become famous?

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