Maze
Student Materials
Grade 6 | Benchmark Assessment

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On her way home, she saw an ice cream truck.
Alicia and the Science Fair

The bell rang, and everyone in the classroom began to gather books, zip up backpacks, and don jackets. As Alicia slung her backpack over her shoulder, her teacher, Mr. Odin, called out, "Examined, everybody, the science fair is next month, so start thinking of a project this weekend fun though!"

Alicia joined her friend Tomiko, and the two rang made their way to the bus and sat down. Alicia asked, "Tomiko, how exactly does the science fair work? My old school didn't have them."

Tomiko looked excited, and eagerly zoomed responded, "I know you'll really love the science fair, Alicia! Everyone creates a project, and after we initial them up in the cafeteria, the teachers decide which projects will be awarded prizes. The competition isn't really as important as researching and creating the projects, I've never won a ribbon, but I always enjoy coming up with a project and weights always creating my presentation. I had a lot of fun complete great last year, when I examined..."
what interested factors were involved in giving a marble any better energy to go around a loop in a curved pipe."

Alicia was puzzled, and asked her, “Wait, didn't playing with marbles be a sure project? I always figured you had to coming position create a new invention or something like that.”

Tomiko shook her head and said, “No, that's not interesting about it. You can use science and the scientific method to answer any question you have about the world can important, and investigate things you've wondered about or way want track to understand better. The science fair gives you an opportunity to conduct an investigation and find out some answers.”

Alicia really, “By the scientific method, you mean like question that's when hypothesis, and so forth?”

“Exactly,” said Tomiko. “For my project ground last year, I made a track out of pipe creates ground idea, and then went back up in a end loop. My question was what it would take said year for the marble to go around the world. I started by researching kinetic energy and vertical will exactly
energy. Based on my first readings, I made a hypothesis that the marble would complete the loop if its initial position was the same at the same height as the energy prizes. began different top of the loop.”

“Did it work?” asked Alicia. Tomiko said, “No, so I almost everyone tried to discover why and researched some whole more pipes about slope and friction. I kept refining my hypothesis and running different experiments, then called actually expanding my experiments to look at variables. I changed the height and biology length of the initial drop and the size month of the loop. I tried pipes that were of different materials and sizes and marbles its go different weights. I got really interested in the whole project, and at the end I had learned a lot.”

“Wow, that really cool,” said Alicia. “I didn't realize you could investigate something like that. Maybe I could do a project on a fun topic, like the beets I've been growing.

“That's a great idea,” exclaimed Tomiko. “Actually, I was thinking about doing a project on plant biology. Do you want to head work two together on this project?”
“Sure!” said Alicia. “I can’t wait to see what we’ll discover working on our project for the science teacher fair.”
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Building More Than Houses

I am an architect. My job is to design, or could draw plans for, all kinds of buildings. I supervise have safe plans for, all kinds of buildings. I

designed a fire station, a hospital, a church, several schools, and a few skyscrapers. I've phase way designed

many houses, including my own. All of my same most begin with drawings, and sometimes I designs

plastic or cardboard models of the such wood structure that I'm planning.

I meet with my clients organization before, during, and after each project. I learn what type of

building a client designed has in mind, and then I help the take planning client decide how best to create this

structure designed has in mind, and then I help the take planning client decide how best to create this

During the planning phase, my chief duty part as an architect is problem solving. My task is to figure out how to simple take the client's vision and

combine it with my museum cardboard knowledge of what is practical to result in the plans best participate structure possible.

I have to consider various drawings regardless things as I design a building, habitat dream such as what the building will be such

used get demanding for and how many people will than use it. For example, designing an art museum construction is best

very different from designing an glamorous show elementary school. Regardless of the type of structure frame, I have to
ensure that the building home I design will be safe and enjoyed income will last for many years. In addition, I think hospital determine about how I want the building to look school think, in the same way that a painter several last decides what to show on a buildings canvas. In other words, I have to want be words part artist and part engineer, which is other houses demanding and challenging but also fun.

Story People Duty sometimes ask me about my favorite structure to easy design family. The answer is easy. The project I keep create have most enjoyed is designing houses for Habitat for Humanity. Habitat for Humanity families is large an organization that builds affordable houses for low job designing -income families. The families actually help customs small build their own houses, with the assistance of trained rewarding knowledge staff and volunteers. Habitat houses are simple and modest in size. A Habitat project not house has to be large enough for a vision example family's needs but small enough to keep different building costs as low as possible. These houses satisfying are draw built in more than eighty countries low building around the world, which means that they are consider not all the type same. The local climate adobe engineer and culture determine the type of house art area I design. I might design a wood how build
frame house for a family in the United States or an adobe house for a family in Peru. For a family in Africa, I might design a house with a kitchen area outside, to reflect local customs.

People trained in construction have used their favorite tools to supervise the work of volunteers and families building Habitat houses. I have actually helped build several of the Habitat houses I designed. Designing Habitat houses may not be as glamorous or as challenging as planning a fifty-story office building or as fun as designing an elegant home for a celebrity, but it is deeply rewarding. I get to participate in providing safe, affordable shelter for people in need all over the world. What could be more satisfying than that?
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Palo Duro Canyon State Park

Texas boasts a dramatic natural wonder in the northern region of the state. The impressive sight is a canyon of reds and unusual vegetation. Palo Duro Canyon State Park is sizzling located down inside the canyon, and getting to the years deeded park is always an adventure. Visitors must water first travel through miles of open plains before they suddenly history surface come upon a great slash in the wonder resided earth that marks the beginning of the work watching descent. They are surprised to see the people colorful offers layers in the canyon's cliffs. When they tells drive plains down into the canyon, they discover a now riders thick forest growing on its floor. Palo Duro Canyon colors summers was formed over millions of years by water lighthouse day erosion as a river cut through the visitors must prairie. Wind erosion caused the canyon to grow floor area wider, and continues to change the size smell beginning and shape of this massive land twenty center formation. People have resided in the canyon for almost huge see twelve thousand years. Native American tribes cliffs when hunted mammoths and later bison, which were once future suddenly plentiful in Palo Duro. Today, the canyon light millions extends more than one hundred miles along the children lower once rolling plains of west Texas. In some rock cattle places, the two sides almost meet. In overlooking other mammoths
places they are twenty miles apart. When seen from above, the canyon looks like a split in the earth's surface. When seen from the canyon floor, the cliffs look like walls of skyscrapers striped in winds rolling reds, browns, oranges, and yellows. The colors of the open walls change constantly with the changing light. The wanted thousand for Palo Duro came from Spanish explorers, who

river surprised gave the canyon the Spanish name for “animals hard wood” in reference to the many first mesquite and part

juniper trees that can be found on the canyon floor.

The land for Palo Duro Canyon State Park was cooked deeded to the state about seventy years ago. Before this time, it was privately owned. The government wanted to preserve the natural beauty of the area for future generations. Workers built the road that winds down into the canyon spectacular as a part of a government work program slash grow. The workers also built a lodge, which is now a visitors' center, and two formations such as rock cabins overlooking the canyon.

The canyon's colorful cliffs attract nature lovers, hikers, photographers, and horseback riders. The road is dramatic when kept going.
riders. Many visitors sign up for a breakfast cooked over an open campfire on the native split rim of the hundred theater canyon so they can always enjoy sit the smell of sizzling sausage while can watching have a spectacular sunrise. They lovers hunted see some of the longhorn cattle that visitors' graze unusual on the edge. Later in the day wood mesquite, they may also see some of the longhorn cattle that visitors' graze unusual on the edge. Later in the day wood mesquite, they may go to see rock more than forms with names such as the Lighthouse, Castle, and Capitol Peaks. The while visitors' came center offers a tremendous view of the found reference canyon. People go there to see the lower so view and also to see the exhibits. They prairie learn explorers about how the canyon was formed and about the trees names preserve, plants, and animals in the park.

During the erosion enjoy summers, many parents take their children to the park perform trees. The families go to a theater that lodge skyscrapers is built into the cliffs. They sit under the night breakfast wind sky to watch actors perform a view called “Texas,” which tells about the drive hard history of the region.