

8th Grade Passages

Middle of Year (MOY) Student Packet

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A Great Comet

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For six months in 1997, people watched a glowing object in the night sky. Comet Hale-Bopp made a show in the sky that lasted from January to June. Its head shone as brightly as a star. Its tail swept back like a fan. Some people thought it might be the best comet to pass by Earth in 20 years.

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Comets begin as dirty chunks of rock in an icy fog. Some of these rocks move toward the sun when its gravity pulls them. Once the rocks get near the sun, they begin to look like comets. Each comet forms a tail and a round head that are characteristic of all comets. The round head and tail make a comet easy to recognize. Comets travel in orbits, or circles, around the sun. These orbits can be big or small. Comets that make small orbits around the sun come near Earth every 200 years or less. They are not very bright, but we see them more often.

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Hale-Bopp is a comet that makes big orbits around the sun. It will not pass near Earth again for about 2,400 years.

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In the 1990s about 12 comets a year were discovered. Most of these could not be seen in the sky without special equipment because they did not come very close to Earth. Even though Hale-Bopp was far away from Earth, it could be seen because its head was huge. The heads of most comets are no larger than six miles in diameter. Hale-Bopp's head was about 25 miles across. Because of its size, Hale-Bopp glowed brightly. Most of the famous comets have had long, thin tails that streamed for millions of miles. Hale-Bopp's tail was wider and shorter.

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People enjoyed watching Hale-Bopp for several reasons. It glowed brightly. Hale-Bopp could be seen without a telescope for six months, from an hour after sunset until an hour before sunrise each day. Everyone had sufficient time to see this bright traveler. There were plenty of chances to look at it. There will continue to be many more comets for us to see. Like Hale-Bopp, they will look like glowing balls in the night sky.

Let's Do It Again

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My heart was beating so loudly that I was sure everyone could hear it over the slow rumbling of the motor. I jumped into the water and put on my skis. Slowly the boat crept forward, tightening up the ski rope. I held on for dear life to the handle on the end of the rope while Mom smiled encouragingly at me from the back of the boat.

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I was trying very hard to recover my earlier feelings of excitement about learning to water-ski. “Whose bright idea was this anyway?” I asked myself anxiously. I sat in the cool water bobbing gently in my bright orange life jacket. I tried to keep the tips of my water skis pointing up out of the water as I had been shown. A wave of fear washed over me. There were just too many instructions to remember. My little sister Nikki cheered as she jumped up and down in the back of the boat next to Mom.

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Nikki had learned to water-ski at a very young age. I, on the other hand, always liked underwater sports such as scuba diving. Moving on top of the water was going to be very different for me. But once I mastered this, we would have another activity that the whole family could enjoy together.

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“Deep breath,” I reminded myself. Dad pulled back the lever to open up the throttle. The motor roared to life. “Here we go,” I thought wildly.

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Mom gave me a big thumbs-up, and the boat lurched forward and gave a mighty pull. I pushed up on my legs as hard as I could and let out a yell. I was actually standing on my skis, skimming across the water, but not for long. I fell forward and landed facedown in the water. Thank goodness I remembered to let go of the rope. My skis came off, and my life jacket kept me floating on the surface of the lake.

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“I don’t believe it,” I thought, flipping over to my back with a grin. “I almost felt like I was flying.”

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“Let’s do it again,” I called to Dad as he circled the boat around to pick me up.

The Parthenon

The Parthenon, a building in Athens, Greece, is perhaps one of the most memorable structures on Earth. Built 25 centuries ago, it is one of the great architectural achievements of the ancient world. There are many reasons for its greatness.

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Athens was the most important city in ancient Greece. In 480 B.C. Greece was under attack by both the Persian army and the Persian navy. The Athenian commander, Themistocles, knew that his forces could not defeat the Persian army then marching toward Athens. Hoping instead to make a stand against the Persians at sea, Themistocles and his forces fled Athens for a nearby island. Although the Persian army overwhelmed Athens and left it in ruins, the Greek navy, led by Themistocles, annihilated the Persian fleet. This victory by the Greeks led all Persian forces to retreat within one year. About 30 years later the building of the Parthenon began. Construction took place between 447 and 432 B.C. during the rule of Pericles. The Parthenon was constructed on the same site as an unfinished structure intended to honor the men who had lost their lives in an earlier battle against the Persians. The Parthenon would stand as a symbol of the strength and importance of the Greek people.

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Many important cities in ancient Greece had an acropolis, or “high city,” on which people constructed important buildings. The acropolis was the highest and most defensible location, so it also served as a fortress in the event of enemy attack. The Parthenon is located about 500 feet above the city of Athens. Before the Parthenon could be built, some areas of the acropolis had to be leveled down, and other areas had to be built up. Then a large, solid foundation was constructed out of limestone blocks. The entire area was buttressed by a reinforcing wall.

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The Parthenon is a rectangular structure consisting of two inner areas surrounded by columns. There are eight columns at each end and seventeen columns along each side. It is a large structure, considering when it was built. It is about 200 feet long and about 100 feet wide. It stands about 60 feet high.

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One extraordinary aspect of the Parthenon is its construction. It required between 20,000 and 30,000 tons of marble that had to be precisely carved so that huge blocks of it could be fitted together without mortar to form the columns and the interior walls.

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Perhaps even more impressive are the “optical corrections” that were used. The columns bulge slightly in the middle because experience had shown the Greeks that perfectly straight columns would not look straight to the viewer. Because corner columns normally appear smaller than

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others, the corner columns of the Parthenon were made slightly thicker and were placed closer to the other columns. The columns were also designed to lean inward slightly because perfectly perpendicular columns seem to slant outward. Furthermore, the platform on which the Parthenon sits was made to curve upward in the middle because a perfectly level floor would appear to sag in the center.

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The Parthenon stands today despite the centuries that have passed. It is a timeless tribute to the enduring culture of the Greek people and is considered a model of excellence in concept and construction. It established the classic style of architecture seen today in many public buildings, such as the White House and the Lincoln Memorial in Washington, D.C. This architectural style is a lasting gift from the ancient Greeks to the modern world.