Field Trip Plan

# Title: Drake Planetarium and Science Center Field Trip

**Ms. Clark**

## Standards: SCI.6.2 2010 - Earth and Space Science

## Understand the relationships between celestial bodies and the force that keeps them in regular and predictable motion.

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| SCI.6.2.1 2010 Describe and model how the position, size and relative motions of the earth, moon and sun cause day and night, solar and lunar eclipses, and phases of the moon. SCI.6.2.2 2010 Recognize that gravity is a force that keeps celestial bodies in regular and predictable motion, holds objects to earth’s surface and is responsible for tides. SCI.6.2.3 2010 Understand that the sun, an average star where nuclear reactions occur, is the central and largest body in the solar system. SCI.6.2.4 2010 With regard to their size, composition, distance from sun, surface features and ability to support life, compare and contrast the planets of the solar system with one another and with asteroids and comets.SCI.6.2.5 2010 Demonstrate that the seasons in both hemispheres are the result of the inclination of the earth on its axis, which causes changes in sunlight intensity and length of day.SCI.6.4 2010 - Science, Technology and Engineering Apply a form of energy to design and construct a simple mechanical device.

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| SCI.6.4.1 2010 Understand how to apply potential or kinetic energy to power a simple device. SCI.6.4.2 2010 Construct a simple device that uses potential or kinetic energy to perform work.  |

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## Teacher: Ms. Clark

## Grade Level: 6th

## Time Duration: Departing at 9 a.m.; Returning at 2:30 p.m.

# Overview: The day before the field trip, students will complete Unit 3, Solar System with. They will take their astronomy spelling/vocab test. They will fill out a KWL chart in their science journals in preparation for the field trip.

# Students and chaperones will arrive at school before morning bell and announcements. Attendance will be taken. Students will have a restroom break while I organize (4)chaperones, all of whom have had their background checks- giving them their group lists(4 students) and itineraries. Brown bag lunches and drinks-names written in Sharpies- will be collected and placed in class cooler to be loaded onto bus. I will bring a bag for first aid kit, medications, and class roster with parent contact info.

We will board the bus promptly at 9 a.m., arriving at Drake Planetarium at 9:30 a.m.

Drake Planetarium itinerary:

 9:30-10:00 a.m. – Arrival, unload bus, and introductions of hosts.

 10:00-11:00 a.m. – Planetarium show, “Planet Dance”

 11:00-12:00 p.m. – Restroom, wash hands, eat brown bag lunches in cafeteria

 12:00-1:30 p.m. – Mars Rovers Lego lab activities

 1:30-2:00 p.m. – Restrooms and board bus

 2:30 p.m. – Return to school

Cost of admissions: $8 per student, chaperones are free

Student cost of field trip: $15 per student (admission and travel)

# Transportation: Students will ride Bus #2. Cost for driver is $14/hour, plus $1 per mile- 64 miles round trip. The total cost of transportation is $134.

# Follow up activities: The next day, the students will review and complete their KWL charts in journals. They will also enter Journal topic #37, “What did I learn about at Drake Planetarium? What was my favorite thing about the trip?”

**Spelling/ Vocabulary List**

***asteroid****: boulder to mountain-sized piece of rock remaining from the early solar system. The largest asteroid is only 1000 kilometers across but most are much smaller.****craters****: a hole in the ground made by the impact of a meteorite.****Earth****: the third planet from the Sun.****Great Red Spot****: a giant hurricane like storm that is about 2 times bigger than the size of Earth.****greenhouse effect****: the trapping of heat energy close to a planet's surface by certain types of gases in the atmosphere (e.g., water, methane, and carbon dioxide). These gases allow visible light from the Sun to reach the surface but prevent the infrared light from the heated surface to radiate back to space.****Jupite****r: the fifth planet from the Sun.****Mercury****: the closest planet to the Sun.****Moon****: a rocky sphere that orbits the Earth.****Neptune****: the eighth planet from the Sun.****observatory****: a place or building that uses large telescopes for observing outer space.****Olympus Mons****: the largest mountain in the solar system. This mountain is a volcano and found on Mars.****orbit****: the path one object takes around another object.****planetarium****: a domed room in which shows the night sky from any locations at any time far in the past to far in the future. Some planetariums are able to show all dome films surrounding the audience with the action.****Pluto****: the ninth planet from the Sun.****revolve****: when an object moves in a circular-like pattern (orbits) another object.****rotate****: when an object spins****Saturn****: the sixth planet from the Sun.****Sun****: the star at the center of our solar system.****Uranus****: the seventh planet from the Sun.****Valles Marineris****: a huge canyon. It is found on Mars.****Venus****: the second planet from the Sun.*

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| Ivy Elementary school |
| Field Trip Permission Form |
| Your child’s class will be attending a field trip to: | Drake Planetarium and Science Center |
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| *Date* | Wednesday, November 28, 2012 | *Time* | Depart @ 9a.m. , Returning @ 2:30 p.m. |
| *Location* | Drake Planetarium, 2020 Sherwood Avenue, Norwood, Ohio |
| *Cost* | $15 |
| *Transportation* | School Bus |
| *Notes* | Please have your student pack a “brown bag” lunch with their name on both their lunch and their drink.  |
|  | Our class will be able to take up to four chaperones for this trip. You may chaperone ONLY if you have a background check on file with the school. If you would like to chaperone, please indicate so on the permission slip. I will be taking chaperone requests on a first come, first serve basis. The cost of the trip for chaperones is $15. Please do not send in any chaperone money until I have notified you that you will be going with us. Thank you |
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| Please return this permission slip by: | Wednesday, November 21, 2012 |
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|  |
| I give permission for my child |  | in room |  |  |
| to attend the field trip to  |  | on |  |  |
| from |  | to |  |  |
| Enclosed is $ |  | to cover the cost of the trip. (Exact cash or check made payable to school.) |
| In case of an emergency, I give permission for my child to receive medical treatment. In case of such an emergency, please contact: |
| Name |  | Phone |  |  |
| Parent/Guardian Signature |  | Date |  |  |
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