

# Craters on Earth's Surface

## Area of Study

Science and Mathematics

## Teacher

Michael K. Wilson and Jennifer LaPoma

## Grade Level

6th

## Duration of Instruction

2 class periods

## Objective

Students will learn about craters such as: how they form, where they are located, how old, how big or small etc

## Standards

- 5.8.6.D.1

## Rationale Statement

Students will use the computer to find information on craters such as their location by continent, size, age, and any interesting facts.

## Procedures

- Ask students if they know what craters are.
- With the use of PowerPoint, show some pictures of craters.
- Mention the name, location, age, and other interesting about the craters in picture.
- Discuss some examples of questions that we might ask about craters such as
  1. when and how often do we get impact craters on earth
  2. where
  3. size
  4. types of craters: simple, complex, man-made, volcanic
  5. impact on planet earth: the environment, people, oceans, tsunamis etc
- Put students in groups of 3- 4 to use the computer
- Give out the work sheet with procedures.
- Review procedure with students.

- Have a student from each group explain procedure to other students in group
- Each team will choose one of the earth's continents
- Students will then work on computer to discover craters.

### Materials

- Computers
- Worksheets
- Calculators

### Assessment

The students will be evaluated according to their ability to:

1. Completion of worksheet

Name \_\_\_\_\_

Date \_\_\_\_\_

### Craters on the Earth's Surface

What questions might we ask about these craters?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

### Procedure:

Each team will choose one of Earth's continents

Africa      Asia      Australia      Europe      North America      South America

1. Write down the continent you choose \_\_\_\_\_
2. Include an image of your continent with all of its known craters  
[www.unb.ca/passc/ImpactDatabase](http://www.unb.ca/passc/ImpactDatabase)

How many craters are on this continent? \_\_\_\_\_

3. Choose 3 craters on this continent that you think are interesting  
Mark the three craters and print their Google maps

Describe why these craters are particularly interesting to you

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**Comparing craters on the continents of the Earth**

Continent	<b>A</b> = Area of continent in km <sup>2</sup>	<b>N</b> = Number of Craters on continent	Crater density = $\frac{N}{A}$	Rank in crater density ( 1 = Smallest )

**Which continent has the largest number of craters?**

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**Which continent has the largest number of craters per unit area?**

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**Why do you think the continents do not have the crater density?**

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**List continents in order of rank**