GEOCACHING = TREASURE HUNTING + MATHEMATICS + ENGAGEMENT + COMMUNITY + FUN

WHAT IS GEOCACHING?

Geocaching (pronounced geo-cashing) is a worldwide game of hiding and seeking treasure. A geocacher can place a geocache in the world, pinpoint its location using GPS technology and then share the geocache’s existence and location online. Anyone with a GPS device can then try to locate the geocache.

Source: http://www.geocaching.com/about/

THE BASIC GEOCACHE

REGULAR GEOCACHE

SMALL GEOCACHE

FAKE STONE GEOCACHE
FAKE RAT GEOCACHE

SHELL MICRO GEOCACHE

ALICE SPRINGS GEOCACHE

SLOVAKIA GEOCACHE

Leicha A. Bragg (2011). MAV Conference, La Trobe University. leicha.bragg@deakin.edu.au
The cache is located on a Lakeshore Drive Sproat Lake. The trail is short and offers access to beautiful Sproat Lake via a small public dock. The cache is near a mossy old growth stump.

Not very deep into the trail, no need to bushwack. Small clear 10cm x 15cm x 6 cm container. Holds underwater goggles, Canadian stickers, bubble blower, washing mitt, puzzles, super ball, child’s bracelet, and an eraser.

Bring your swimming gear.
Have fun and enjoy the view.

Additional Hints (No hints available)
12/7/2011

THE LOG BOOK

LOGGING THE FIND ONLINE

TNLNSL = Took Nothing Left Nothing Signed Logbook
TFTH = Thanks For The Hide

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WHY PLACE-BASED EDUCATION?

“Emphasizing hands-on, real-world learning experiences, this approach to education increases academic achievement, helps students develop stronger ties to their community, enhances students’ appreciation for the natural world, and creates a heightened commitment to serving as active, contributing citizens.”

David Sobel, *Childhood and Nature*

GEOCACHING AND MATHEMATICS

- **Measurement and Geometry**
  - Location and Geometric reasoning
- **Distance, direction, compass points, co-ordinates, angles**
- **Mapping** – read, follow, plan trips, draw, using scale

Trackable – Travel Bug

Ronald McDonald bear

Send your class travel bug into the world

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12/7/2011

GEOCACHING AND MATHEMATICS

Statistics and Probability
- Data representation and interpretation
  - Analysing data
  - Interpreting data displays

DATA

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<td>Sunday</td>
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Weekday to install = 441 (76.7%) to 188 (30.3%)

Mystery Geocacher

Here is data from one mystery geocacher’s treasure hunting excursions. What information can you assemble from these data about your mystery geocacher? Write a short story to describe a typical day or week-long holiday in the life of your mystery person.

Difficulty Assessment

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PRE-GEOCACHING SKILLS

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CHALK COMPASS

Which direction is …?
The playground
The office
The toilets
The school hall
The school front gate

Through geocaching I learnt...

Scale, bearings and cardinal points.

I never knew how to use it [a compass] properly but now I know how to use it and all of the different directions.

I didn’t know co-ordinates that well, so I am pretty good at it now.

Curriculum Connections

Social Studies
• reading and creating maps

History
• writing (reporting)

Mathematics
• reading (viewing – graphics)

Science
• field and animal adaptations

Technology
• maps

Physical Education
• walking, hiking, orienteering

Daily Physical Activity
• plant and animal adaptations

Arts
• drawing/painting

Photography

Hungarian Children Geocaching

Hungarian children geocaching in Budapest, Hungary

Happy Treasure Hunting

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