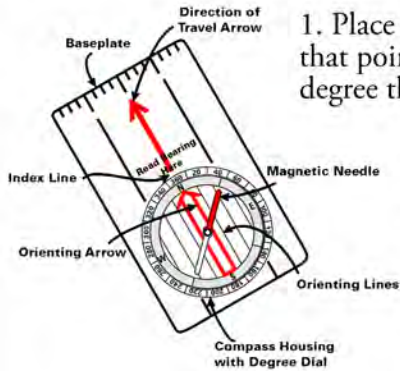


# HOW TO USE A COMPASS



1. Place red end of the needle that points north on the degree that you want to travel.

2. Walk in the direction the fixed arrow is pointing.

3. Find a landmark in the direction of the arrow, and walk towards that point.



**GPS numbers can be presented 3 different ways for the same location**

1. N41.51787 W 085.81718
  2. N41.31.072' W 085.49.031'
  3. N41.31'04.3" W 085.49'01.8"
- This course uses the first method.

# HOW TO FIGURE THE DISTANCE OF YOUR PACE.



In order to gauge how far your stride is in feet, find the 100 ft. markers at the West (A) and East (B) fence posts of the parking lot. Standing at the West end (A), walk your normal gait to the East end (B), counting your paces. A pace is 2 steps. Divide total paces by 10. This tells you how many paces it takes for you walk to 10 ft. If it takes you 30 paces to walk 100 feet, when you divide by 10, this equals 3 paces. So 3 paces (6 steps) = 10 feet, or 30 paces, (60 steps) = 100 feet.

THIS ORIENTEERING / GPS CHALLENGE COURSE WAS CREATED BY **NATHAN HITE** FOR HIS **EAGLE SCOUT PROJECT** ON OCTOBER 16, 2012



FOR THIS AND OTHER GREAT EDUCATIONAL PROGRAMS, CONTACT:

## ELKHART COUNTY PARKS DEPT.



211 West Lincoln Ave.  
Goshen, IN 46526  
(574) 535-6458  
Office Hours M-F 8:-4:30  
info@elkhartcountyparks.org

### Park Hours:

January, February, November, December	9 a.m. - 6 p.m.
March, October	9 a.m. - 7 p.m.
April, September	9 a.m. - 8 p.m.
May, June, July, August	9 a.m. - 9 p.m.

[www.elkhartcountyparks.org](http://www.elkhartcountyparks.org)

# ORIENTEERING / GPS CHALLENGE COURSE AT BAINVERTOWN RIVER PRESERVE



BAINTERTOWN IS LOCATED AT N41°31.032" W 085°49.037".

# BAINTERTOWN DAM/ RIVER PRESERVE Orienteering & GPS Course



## SECRET CODE

On each marker is a clue to a secret code. Fill in the spaces to the right of each coordinate with the clue to reveal the message.

## STICK TO THE PATHS

All markers are on or along the pathways. Markers are on posts or existing structures. No need to stray from the paths

## BOY SCOUT REQUIREMENTS

**\* 1ST CLASS REQUIREMENT #2**  
Use Scout handbook and compass to determine width of the channel.

## 2ND CLASS REQ. 1A & B

Go to [NewParisBoyScouts.org](http://NewParisBoyScouts.org) and download map starting at the Troop 12 cabin to complete 5 mile hike. This will assist in completing all requirements of both ranks in one visit as permitted by BSA. *Have fun!*

**A PACE IS THE DISTANCE OF 2 STEPS**

## COMPASS COURSE

- 1. 70° 120 feet \_\_\_\_\_
- 2. 315° 115 feet \_\_\_\_\_
- 3. 293° 292 feet \_\_\_\_\_
- 4. 143° 154 feet \_\_\_\_\_
- 5. 310° 197 feet \_\_\_\_\_
- 6. 180° 353 feet \_\_\_\_\_
- 7. 150° 165 feet \_\_\_\_\_
- 8. 50° 185 feet \_\_\_\_\_
- 9. 110° 100 feet \_\_\_\_\_
- 10. 15° 83 feet \_\_\_\_\_
- 11. 310° 110 feet \_\_\_\_\_
- 12. 320° 205 feet \_\_\_\_\_
- 13. 180° 64 feet \_\_\_\_\_
- 14. 286° 97 feet \_\_\_\_\_
- 15. 312° 642 feet \_\_\_\_\_
- 16. 330° 200 feet \_\_\_\_\_
- 17. 300° 400 feet \_\_\_\_\_
- 18. 160° 518 feet \_\_\_\_\_
- 19. Follow Trail Back to Marker 11 \_\_\_\_\_
- 20. 42° 350 feet \_\_\_\_\_
- 21. 204° 218 feet \_\_\_\_\_
- 22. 100° 550 feet \_\_\_\_\_
- Measure Channel \_\_\_\_\_
- \*See 1st Class Note
- 23. 170° 1482 feet \_\_\_\_\_
- 24. 310° 1482 feet \_\_\_\_\_
- 25. 266° 1033 feet \_\_\_\_\_
- 26. 280° 90 feet \_\_\_\_\_



MARK AN X ON THE MAP OF THE LOCATION OF MARKERS

## GPS COORDINATE COURSE

- With feet on start go to:
- |               |             |       |                                    |             |       |
|---------------|-------------|-------|------------------------------------|-------------|-------|
| 1. N41.51745  | W 085.81685 | _____ | 14. N41.51787                      | W 085.81718 | _____ |
| 2. N41.51762  | W 085.81715 | _____ | 15. N41.51910                      | W 085.81887 | _____ |
| 3. N41.51800  | W 085.81812 | _____ | 16. N41.51963                      | W 085.81903 | _____ |
| 4. N41.51773  | W 085.81759 | _____ | 17. N41.52026                      | W 085.82020 | _____ |
| 5. N41.51815  | W 085.81808 | _____ | 18. N41.51933                      | W 085.81890 | _____ |
| 6. N41.51722  | W 085.81765 | _____ | 19. Follow Trail Back to Marker 11 |             | _____ |
| 7. N41.51691  | W 085.81723 | _____ | 20. N41.51753                      | W 085.81651 | _____ |
| 8. N41.51721  | W 085.81668 | _____ | 21. N41.51791                      | W 085.81515 | _____ |
| 9. N41.51719  | W 085.81632 | _____ | 22. N41.51733                      | W 085.81516 | _____ |
| 10. N41.51737 | W 085.81615 | _____ | 23. N41.51750                      | W 085.81316 | _____ |
| 11. N41.51753 | W 085.81651 | _____ | 24. N41.51425                      | W 085.81001 | _____ |
| 12. N41.51794 | W 085.81692 | _____ | 25. N41.51750                      | W 085.81316 | _____ |
| 13. N41.51781 | W 085.81689 | _____ | 26. N41.51712                      | W 085.81689 | _____ |
|               |             |       | 27. N41.51721                      | W 085.81720 | _____ |

Scoutmaster Signature \_\_\_\_\_ Date: \_\_\_\_\_

