

Boy Scout Troop 17 Orienteering Course

This course is laid out at the Great Woods Conservation area in Mansfield, accessible from the parking lot on Oak Street (see attached map).

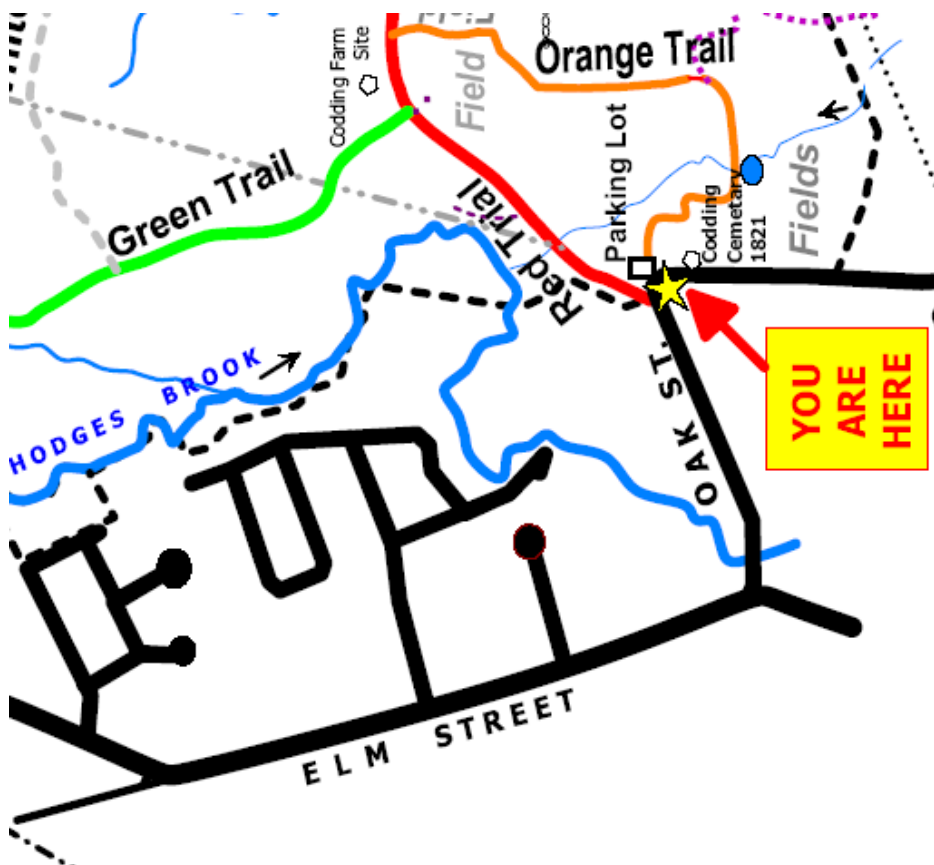
Preparation:

- You need to know the length of your normal pace. The best way to do this is to go to a football field, and walk from one goal line to the other – and then back. The number of paces each way should be the same. If not, and the two figures are not close, do it again. If the two figures are close, take the average.
 - Call the number of paces for 100 Yards “Z”
 - To calculate the number of paces required to go a certain distance in yards, use the following formula:

$$\text{Paces} = (\text{Distance in Yards}) \times (Z)/100$$

- To calculate the distance you’ve walked (in yards), use the following formula:
$$\text{Yards} = (\text{Paces}) \times (100)/Z$$

- Bring a compass (you will need it), and whatever other clothing is appropriate for the weather (always bring a bottle of water!).



- This orienteering course can be done by a single scout with parents, or by a group of scouts with two adults along.
- Your Assistant Scoutmasters recommend that if you have a group of scouts doing this, at least two of them are counting paces.

All compass points listed below are Magnetic, not true. Additionally, we have taken the compass bearings to the nearest compass point rather than give you exact bearings – you will find this is absolutely fine for this course.

Starting from the Parking lot:

- 1) From the SE corner of the parking lot: Head SSE for 150 yards, to the head of the Orange trail.
- 2) Proceed down the Orange trail (ESE) for 200 yards, to a fork in the trail
- 3) At the fork, proceed N for 475 yards, to another fork in the trail (at a tree line between two fields)
- 4) Proceed ENE for 9 yards
- 5) Proceed N for 140 yards – you have reached the Red Trail
- 6) Proceed W for 100 yards – You have reached the Green Trail
- 7) Proceed N for 200 yards to where the Overhead Power Lines cross the green trail.
- 8) Estimate the Height of the Power Poles, and the Height of the Power Lines
- 9) Proceed SSE along the power lines for 420 yards. You will now be at the Red Trail.
- 10) Bear right onto the Red Trail. Go to Stream Bed and estimate distance from Power lines to Stream Bed.
- 11) Continue down Red Trail. Estimate distance from Stream Bed to Trail head (Metal gate crosses Red Trail).

Provide to your Assistant Scout Master:

Estimated Power Pole Height _____

Estimated Power Line Height _____

Estimated Distance from Power Lines to Stream Bed _____

Estimated Distance from Stream Bed to End of Red Trail _____