

657-5010 (78-555) Fieldmaster® Orienteering Kit

Equipment is provided for 12 students (or 24 students working in pairs).

Parts List:

- 1 Teacher Manual: "Orienteering and Map Games for Teachers" by Mary E. Garrett
- 1 USGS Fact Sheet: "Topographic Map Symbols"
- 1 USGS Fact Sheet: "Finding Your Way with Map and Compass"
- 1 Teacher Demonstration Compass
- 12 Student Compasses
- 12 Student Safety Whistles
- 1 Stopwatch
- 6 Control Marker Sheets (to make 12 control markers)
- 3 Control Card Sheets (to make 12 control cards)
- 1 Alphabet Rubber Stamp Set (pre-inked)

Warranty and Parts:

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.

How to use:

The **Teacher Manual**, "Orienteering and Map Games for Teachers", contains many easy and exciting ideas for teaching orienteering and map reading to both elementary and secondary grade students.

The U. S. Geological Survey Fact Sheet, "**Topographic Map Symbols**" gives clear information on interpreting Topographic Maps. Color copies can be obtained for your students from the U.S.G.S. Denver Order Desk (1-888-ASK-USGS).

The U. S. Geological Survey Fact Sheet, "**Finding Your Way with Map and Compass**" offers more detailed information. You can print copies from the usgs.gov website. Look for Fact Sheet FS-035-01.

The large **Teacher Demonstration Compass** is non-functional so that the needle and dial stay in place when it is held up for the group to see.

The **Student Compasses** are for use in the Northern Hemisphere. They come with a lanyard and are graduated 0 to 360 degrees in 2 degree intervals. Each has a liquid-filled capsule, declination correction scale, luminous points, and an acrylic base. The base has a 4x magnifier. Additional compasses may be ordered from Wildco (item #78-530).

Metal Student Safety Whistles have been included since the students may be scattered around an area during the orienteering activities. It is a good idea to let them blow their whistles before starting an activity just for fun. This will help them resist blowing the whistles when they are following an orienteering course. During an activity, they should be cautioned to only blow the whistles when they have an emergency. Instruct the students to stay in one place and use their whistles if they cannot find their way back. Additional whistles can be ordered from Wildco (item #657-4210).

A **Stopwatch** is included to time the orienteering events. The teacher may use a whistle to call the students back when the time is up for the activity. Use a return signal for the children such as 3 long blasts on the teacher's whistle.

The following set-up can be used for a simple orienteering course activity:

**On a day before the orienteering activity, walk the school grounds or nearby area and find interesting spots to set up orienteering control stations. You can mark these spots on an existing map or make your own fun map. Selecting sites and making the map can also be a great learning activity for older students. Make a copy for each student.

Cut apart the six **Control Marker Sheets** to make 12 control markers. Fold each control marker on the lines to form a triangle. Glue the tab to the back of the first section. Punch holes near the top where marked, and tie 3 narrow ropes to the marker so it can be hung from a tree or post. This can also be done by students.

Cut apart the **Control Card Sheets** so that there are enough to supply each student or group of students.

**On the day of the orienteering activity, set up a control station at each spot marked on your map:

Hang a control marker where it can be easily seen. Set it on a post or rock if there is no place to hang one. We suggest tying it down in some way. Stamp the control marker with an **Alphabet Rubber Stamp**.

Tie a rope to the stamp you used on the control marker and hang or tie it up near the control marker. Tie it down to help the children resist hiding it from the next group! The alphabet stamps come pre-inked so you should not need stamp pads.

**When you have gathered the students and are ready to begin the activity, supply each student or group of students with a control card, a compass, a whistle and a map.

Explain safety issues such as staying with a buddy, staying on the grounds and coming back when the teacher gives the signal.

There are many different orienteering activities that can be done with this course depending on the age of the children, experience, and the time

available. Many options are discussed in the Teacher Manual starting on page 17. For all the activities, the students will find a control marker and use the rubber stamp to mark their control card.

**Here are some ideas for finding more map and compass activities:

There are some excellent activities and lesson plans available on the internet. The U.S. Orienteering Federation has a free teacher's kit available online.

To print topographic maps for your local area you can visit websites such as TopoZone in the U.S. and Toporama in Canada. Information on U.S. topographic maps can also be obtained from the U.S.G.S. (1-888-ASK-USGS). Information on Canada topographic maps can be obtained from the Centre for Topographic Information.

There may be a local orienteering club near you. They can be very helpful with questions and will sometimes help with school orienteering activities.

Other Fieldmaster® kits that may be of interest:

78-545 Lake Bottom Sampling Kit

Contains student-sized benthic grab; wash bucket; thermometer; twelve (12) sample bottles; instructions

78-540 Stream (Moving Water) Sampling Kit

Contains six (6) student D-frame nets; turbidity tube; thermometer; twelve (12) sample bottles; six (6) wash bottles

78-547 Plankton Sampling Kit

Contains water sampling bottle; Secchi disk; student plankton net, Nitex® construction; 24 sample bottles, 12 each of two different sizes; wash bottle for rinsing nets.

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