

32805 QUAD/SECT KIT

Purpose:

To sample target populations in *either* a one square meter quadrat *or* two one-quarter square meter quadrats in conjunction with included transect lines.

Assembly:

This kit will make *either* one large quadrat *and* two small ones. When one of these is selected for assembly, the extra fittings and lines can be tied together to prevent loss until they are needed.

Procedure:

The two transect lines can be interconnected or used individually. With a transect line in place across the area to be studied, a quadrat can be positioned using the marks which are at an interval of 2m according to the desired sampling pattern. Within the framework provided by the quadrat, the desired sampling can take place, and the results recorded for later analysis. The quadrat can be collapsed for storage by loosening and sliding apart all of the fittings, leaving the liner cord inside. In this way, reassembly becomes even easier.

Extensions:

Some examples of COUNTING in the quadrat:

- Dandelions on the school lawn
- Patterns on the library rug
- Ant hills on the road shoulder
- Organisms at the sea shore or open field
- Other population studies
- Repetitions in wallpaper

Some examples of MEASURING in the quadrat

- Estimating percentage of vegetation
- Measure closest ...
- Measure farthest ...
- Measure crop heights

Some examples of HARVESTING in a quadrat:

- Gather and weight ...
- Gather and sieve ...
- Clip and weigh ...
- Select only those that ...

Some examples of LABELING in a quadrat:

- Plant a fixed number of seeds
- Paint a color code on each individual that is mobile
- Release a fixed number of migratory elements

Time Allocation:

To prepare this product for an experimental trial should take less than ten minutes. Actual experiments will vary with needs of students and the method of instruction, but are easily concluded within one class period.