



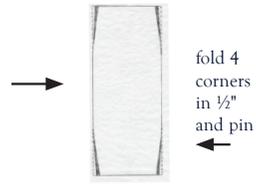
Instructions for student kit backpack

Materials needed:

- ◆ **Fabric for backpack**—35" long x 14" wide
(Use a strong fabric such as denim. If you have access to a commercial sewing machine, nylon or polyester canvas fabric can be used.)
- ◆ **Two 4 $\frac{1}{8}$ " square pieces of fabric**
- ◆ **Two straps for backpack**—each 23 $\frac{1}{2}$ " long x 1 $\frac{1}{2}$ " wide
(same fabric as bag, or nylon webbing)
- ◆ **Strap reinforcement strip**—2 $\frac{3}{4}$ " x 1 $\frac{1}{2}$ "
- ◆ **Two drawstrings, 30" each**
(cording can be used; burn ends to avoid fraying)

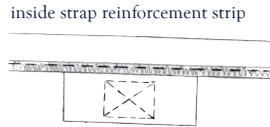
#1

Serge or zigzag all edges of fabric. Fold in side seams $\frac{1}{2}$ " at tops.



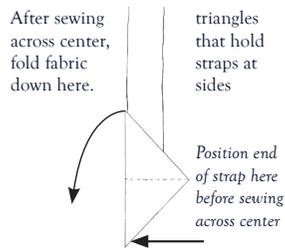
#2

Fold 1" of fabric at tops and sew top seams, allowing $\frac{3}{4}$ " sleeves for drawstrings. With one top seam, sew strap reinforcement strip at the middle of inside of bag. Catch edge in top seam.



#3

Prepare triangles that hold straps at sides. Fold the $\frac{4}{8}$ " square pieces of fabric once (wrong side out) into triangles. Position the strap inside the triangle with end at the arrow and sew across the middle. Fold fabric away from long end of strap.



#4

Pin 1" deep folds at bottom of side seams (see #4a); add triangles with straps (catch corners of straps in side seam—see #4b) above 1" folds, then sew sides ($\frac{1}{2}$ " seams) up to $2\frac{1}{4}$ " close to top.

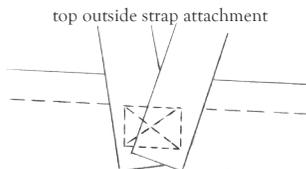


#4b
strap corners (inside of bag)



#5

Sew top ends of straps onto bag near top of bag where the reinforcement strip is inside.



#6

Insert drawstrings and knot ends, one on one side and the other on opposite end.

