

# WATERPROOF BACKPACK PROJECT SHEET

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## Fabric needed:

Main fabric - 1 yard

Lining fabric - 1 1/4 yards

## Supplies needed:

PUL (polyurethane laminate) fabric

100% polyester sewing thread

8 large 6.35mm Dritz eyelets

1 Dritz eyelet plier

1 complete Babyville snap set size 20 (2 caps, 1 socket, 1 stud)

2 sets 1 inch wide buckle slide and rectangular split loop (slide adjusters)

ribbon for drawstring

fray check

ruler

snap pliers

12" all purpose Coats and Clark zipper - detachable wetbag

16" all purpose Coats and Clark zipper - outer pocket

adjustable blind hem stitch foot or zipper foot

walking foot

Babyville applique and label (optional)

scissors or optional rotary cutter and mat

fabric marking pen

80/12 universal sewing needle

## Cut the following for your bag:

### Detachable wetbag

- \* top piece - 9" W x 3 3/4" H - cut 1 main fabric
- \* bottom piece - 9" W x 6 3/4" H - cut 1 main fabric
- \* back piece - 9" W x 10" H - cut 1 main fabric
- \* ribbon loop - 7/8" W x 3" long - cut 1 grosgrain ribbon
- \* zipper tabs - 2" W x 2 1/2" H - cut 2 main fabric

### Drawstring

- \* cut one piece of 1/4" ribbon 40" long

### Backpack backside

- \* top piece - 10 1/4" W x 3" H - cut 1 main fabric, cut 1 lining fabric
- \* middle piece - 10 1/4" W x 2 5/8" H - cut 1 main fabric, cut 1 lining fabric
- \* bottom piece - 10 1/4" W x 9 1/2" H - cut 1 main fabric, cut 1 lining fabric
- \* back lining piece - 10 1/4" W x 13 1/4" H - cut 1 lining fabric
- \* pocket lining piece - 10 1/4" W x 11 1/2" H - cut 1 lining fabric
- \* zipper panel cover piece - 10 1/4" W x 2 1/4" H - cut 1 main fabric

### Backpack front

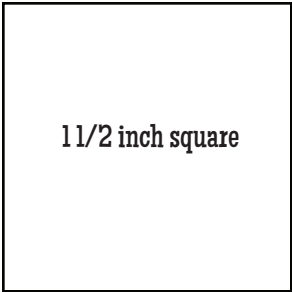
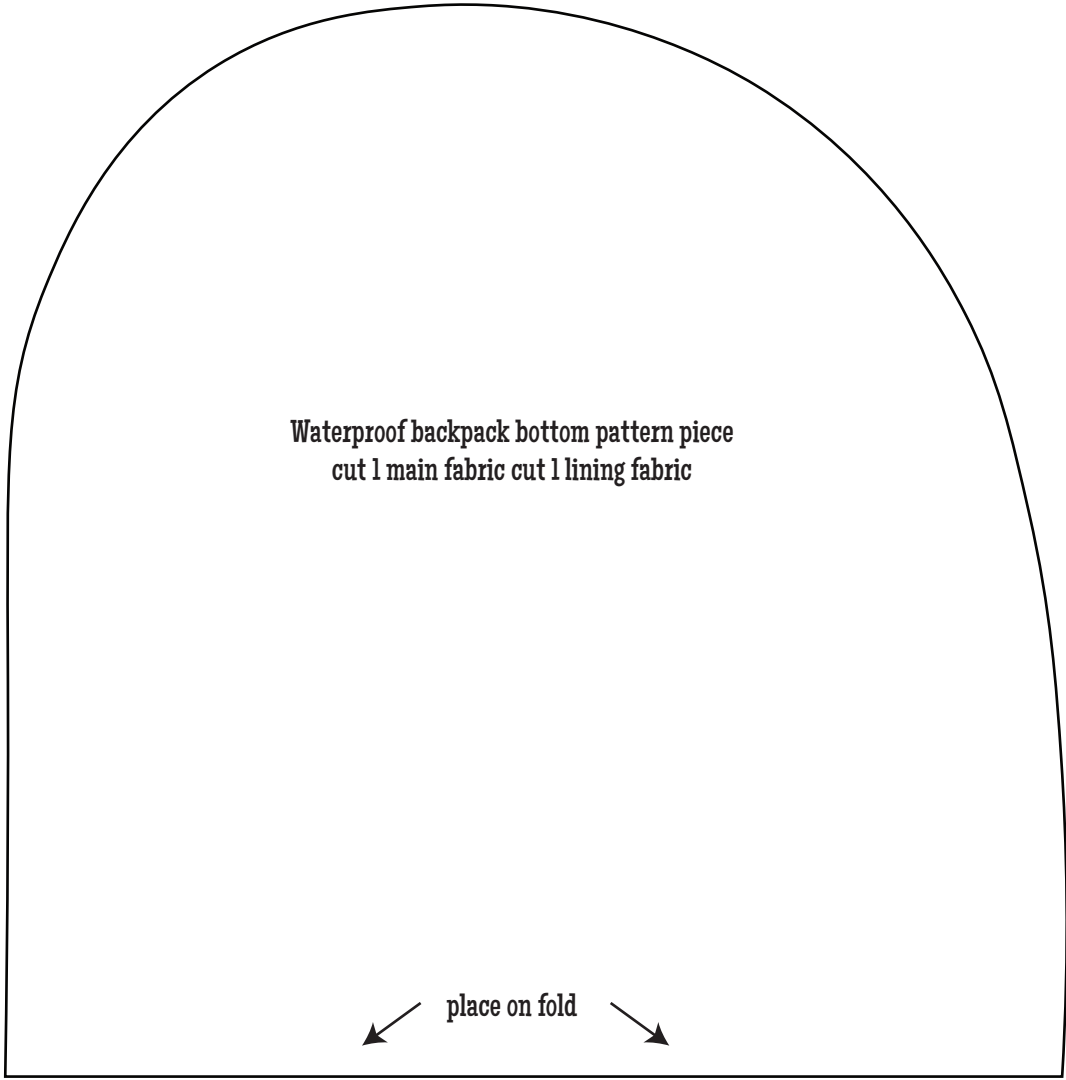
- \* front piece - 20 1/2" W x 13 1/4" H - cut 1 main fabric, cut 1 lining fabric
- \* flap piece - 9 3/4" W x 9 5/8" H - cut 2 main fabric or cut 1 each main fabric and lining fabric

### Straps and loops

- \* long straps - 33 1/2" long - cut 2 from 7/8" W grosgrain ribbon  
alternatively 4 1/2" W x 33 1/2" long - cut 2 main fabric
- \* strap loops - 3 1/2" long - cut 2 from 7/8" W grosgrain ribbon  
alternatively 4 1/2" W x 3 1/2" H - cut 2 main fabric
- \* back handle loop - 2 1/2" W x 9 1/2" H - cut 2 main fabric

### Bag bottom

- \* cut from included pattern piece



## Sewing Instructions:

This backpack is sewn together using a 3/8" seam allowance, 1/4" basting allowance and 1/8" topstitch. Always backstitch at the beginning and end of each seam you stitch to lock your stitches in place. A walking foot is recommended when sewing PUL to PUL. Lengthen your stitch to 3.0 before sewing PUL to PUL.

### Detachable wetbag

1. Trim off ends of zipper so that your zipper measures exactly 8 inches long. Be sure to remove the zipper stops from the ends when you adjust the length.
2. Baste the open ends of the zipper together.
3. Place zipper tab fabric right side down on each end of the zipper, center these on the zipper tape and match the cut ends of the zipper tape to the tab. Sew tabs to the zipper stitching 1/2" away from the end.
4. Fold the tabs over along stitching line. Topstitch to secure. Trim tabs flush with zipper tape along the top and bottom edges of the tabs.
5. With zipper facing right side up with the zipper zipped shut and the zipper head on the left side of the zipper, place the top piece right side down on top of zipper. Pin or clip together. Stitch top piece to zipper using a zipper foot or your adjustable blind hem stitch foot. Move zipper head out of the way while sewing as needed. If using an adjustable foot you will line up the left edge of the foot with the zipper track and adjust the guide so that it is touching the edge of the zipper. Place the needle in the left hand position and sew fabric to zipper.
6. Flip up the fabric. Using the adjustable foot set your needle into the center position and topstitch the piece to the zipper.
7. Place the bottom piece right side down on the zipper and pin or clip. Sew fabric to zipper following step 5 and 6.
8. Determine placement for ribbon loop along left hand edge of front of bag. At least 1 inch down from top corner. Slide ribbon on to a small D ring. Fold ribbon in half to form a loop. Align cut ends of ribbon with edge of bag front piece. Baste in place.
9. Open zipper half way. Place back piece and front pieces right sides together. Stitch bag pieces together. Trim corners and turn right side out. Set bag aside.

### Hanging handle strap and loops

1. If using fabric to construct your straps you will need to create a finished end on one end of the strap. To do this you need to fold one end down 3/8" and then pin or clip. You can lightly press the PUL to create a crease if needed. Then fold the strip in half, lightly press to crease then fold the edges in to the center to create a narrow strap. Again, press lightly to crease if needed. Clip and edgestitch the straps. It is best to stitch across the short ends first to help stabilize fabric and minimize shifting, then stitch down the long sides. Repeat with second strap. **\*if using ribbon cut ribbon and fray check ends.**
2. You create the strap loops almost exactly like you did the straps. Fold in half, lightly press or finger crease then fold the edges in to the center and press to crease, fold in half again and stitch along the long edge. Slip loop into split ring and baste along the bottom edge. Repeat for the second loop. **\*if using ribbon cut ribbon and fray check ends.**
3. Following step 2 create the hanging handle loop. Set all straps and loops to the side and continue to the next step in the construction of your backpack.

## Bag Flap

1. Fold main fabric piece for flap in half and find the center. Measure up from the edge 1 1/2" and make a mark with your fabric marker. This is where you will set your snap on the flap for closure.
2. Using a small cup, bowl or plate round the bottom corners of your flap.
3. Place main and lining fabrics right side together. Sew together leaving the top open.
4. Clip the curves of the flap. Turn right side out. Topstitch, leave the top open. Set aside.

## Back pocket and back of backpack

1. Position backpack back pocket lining bottom piece right side up on your work surface.
2. Place your zipper centered on this piece with the zipper pull on the right. Align the top edge of the zipper tape to the top edge of the lining piece. Pin or clip to hold.
3. Place the main fabric bottom piece right side down and align edges. Sew along top edge of zipper just like you did for the wet bag.
4. Fold fabric at stitching line to expose zipper and topstitch.

## Zipper cover

This is optional but a lovely decorative touch!

1. Fold the zipper cover piece in half lengthwise. Press lightly to crease if desired.
2. Turn your bag piece so the that zipper is at the top and the fabric is pointing toward you. The zipper head should be on the left side of the project now.
3. Place zipper cover on top of zipper with the open edge of the cover lined up with the edge of the zipper tape. Baste along top edge.

## Middle section of backpack back

1. Place the middle lining fabric piece right side up on your work surface. With the zipper head on the left, position zipper with bottom piece attached on top of the lining piece. Place the main fabric middle piece right side down on top of the zipper. Sew along the edge of the zipper.
2. Fold the middle fabric pieces away at the stitching line and topstitch.
3. Open the zipper so that the zipper head is a few inches away from the edge and trim the zipper flush with the pocket pieces on both sides.
4. Baste along the edges of the zipper to keep the zipper tape properly aligned.
5. Place the outer pocket lining piece right side facing up under the piece you just finished. Line up all the edges and baste these pieces together.

## Straps

1. Measure in 1 1/2" from both sides of the back piece and make a mark with your fabric marker. Line up the outer edges of the straps with these marks on each side. Baste in place to secure.
2. Take a strap and thread through the slide buckle, fold up one end 2" stitch in place. Repeat with second strap.
3. Pull other end of strap through split ring loop and thread through buckle. Repeat with second strap.
4. Find center of backpack back. Place straps side by side at the center and baste into place.
5. Position hanging handle loop end at each side of the straps and baste in place.

## Front Bag Flap

1. Set snap through flap. Use 1 cap and one socket. The socket needs to be on the lining side of the flap, cap on the main fabric side. Set the snap with Babyville snap hand pliers.
2. Center flap on back of backpack with the lining side facing up towards you. The backpack should be right side up with the straps facing you.
3. Baste flap to the back panel.
4. Place backpack back top piece right side down on top of the flap. Stitch all layers together.

## Finish outer layer of bag

1. Find the center of your front backpack piece. Measure down 5 inches and mark. This is where you will set the stud for the snap closure. Cut a 2" x 2" square of scrap PUL fabric to back the snap. Using an awl poke a hole at your mark and set the snap so that the stud is facing up on the main fabric and the cap is on the back side.
2. Now you will mark your eyelet placement. Measure 1 1/2" down from the top edge of the front and back backpacks piece at the center. Make a mark. Now you will measure 2" away from the center in both directions at the mark on the front and the back. From that mark you will measure 4 1/4" away from the previous mark in both directions on the front and the back. Now you have 8 marks for your eyelets.
3. The front piece is wider than your back panel. Align the sides of the front piece of the main fabric for the front of the backpack with the edges of the back panel you created. Stitch together along the side edges leaving the bottom open.
4. Find the center front and back of your backpack bottom piece of main fabric. Mark these. Match the bottom piece centers with the centers for the front and back of the backpack. Pin right sides together. Stitch bottom to front and back of backpack.

## Creating the lining for the backpack

1. You will sew the lining wrong sides together at the side seams for the front and back. Pin and sew the bottom of the lining on just like you did in set 4 of the previous portion of the instructions. Again sew the bottom on with wrong sides facing. This is so your bag can be wiped out after use.

## Completing the backpack

1. Insert the outer layer of the backpack inside the lining. You want the right side of the outer facing the wrong side of the lining. Sew together leaving and opening along the side or back to turn through. Turn right side out and topstitch to close opening.
2. Set eyelets following instructions on eyelet plier package. Thread ribbon through eyelets and knot at the ends.