

Paper Roller Coaster Electronic Templates

To get started, follow these steps:

1. Make copies of the templates onto card stock (65 lb). If possible copy the structural pieces (i.e. columns, beams, diagonal supports, shelves, and brackets) on white paper. Then copy each of the other pieces on different colored paper. This makes it easier for the students to find the desired piece. It also helps you to see which pieces are getting low. Another option is to use white paper for the structure and a single color for all of the other pieces. This still makes it easy to see the path for the marble. The chart below shows suggested number of copies of each template to make one large coaster.
2. Cut the sheets into strips using a paper cutter. Cut along every thin black line.
3. Cut pieces of sturdy cardboard or foam board so that you will have one for the base of each roller coaster. A suggested size is 12 $\frac{3}{4}$ " x 22 $\frac{3}{4}$ ". With this size, columns can be mounted in the corners of the board and midpoints of the long edges, leaving exactly the right amount of space to attach beams without any trimming necessary.
4. Gather other supplies, such as scissors, rulers, ball point pens, and enough rolls of tape so that each person or group has at least one roll.
5. Use the instruction manual to learn how to build each piece. Practice making each piece so you'll be able to explain it to your students.
6. Have your students work in teams and have fun being creative!

Page Number	Template name	Suggested number of copies per roller coaster	Suggested colors
2	Columns	15	White
3	Beams	10	White
4	Diagonal Supports	4	White
5	Shelf	2	White
6	Brackets	1	White
7	Straight Track	3	Red
8	Sharp Curve	3	Green
9	Wide Curve	3	Yellow
10	Funnel	2	Orange
11	Merge	1	Purple
12	Loop	1	Light Blue

column

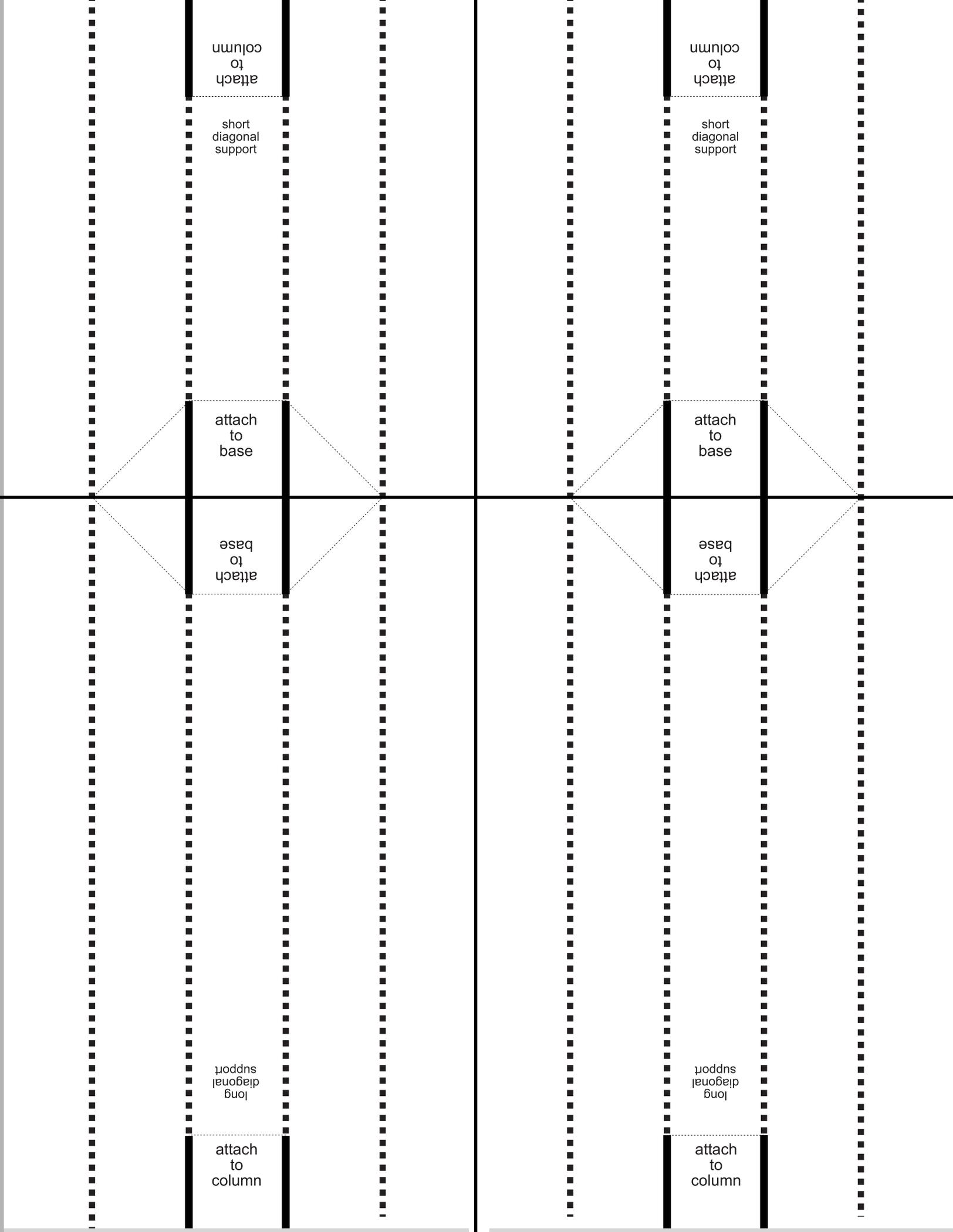
column

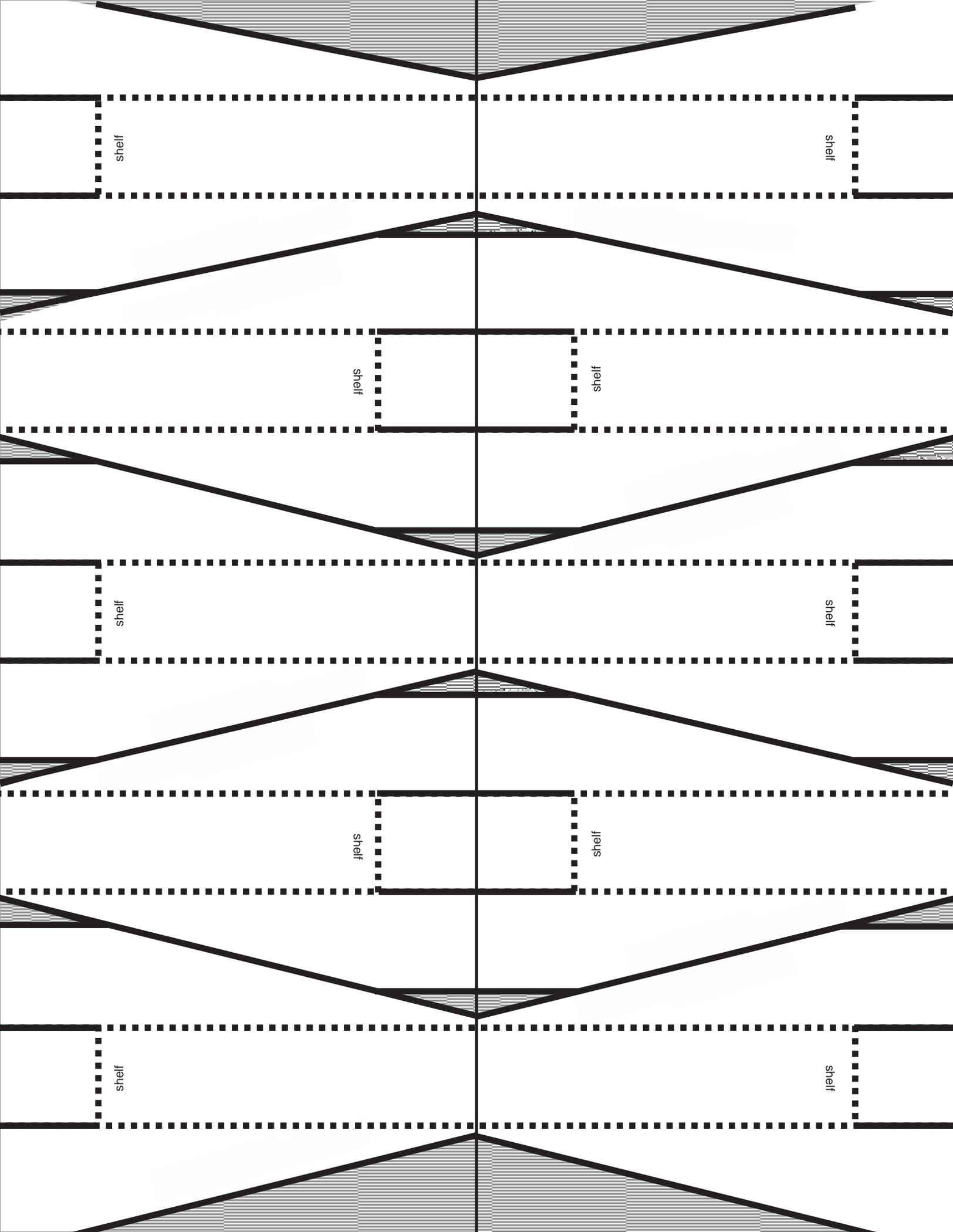
beam

cut to length
desired

beam

cut to length
desired





shelf

fold

straight
track

fold

fold

straight
track

fold

fold

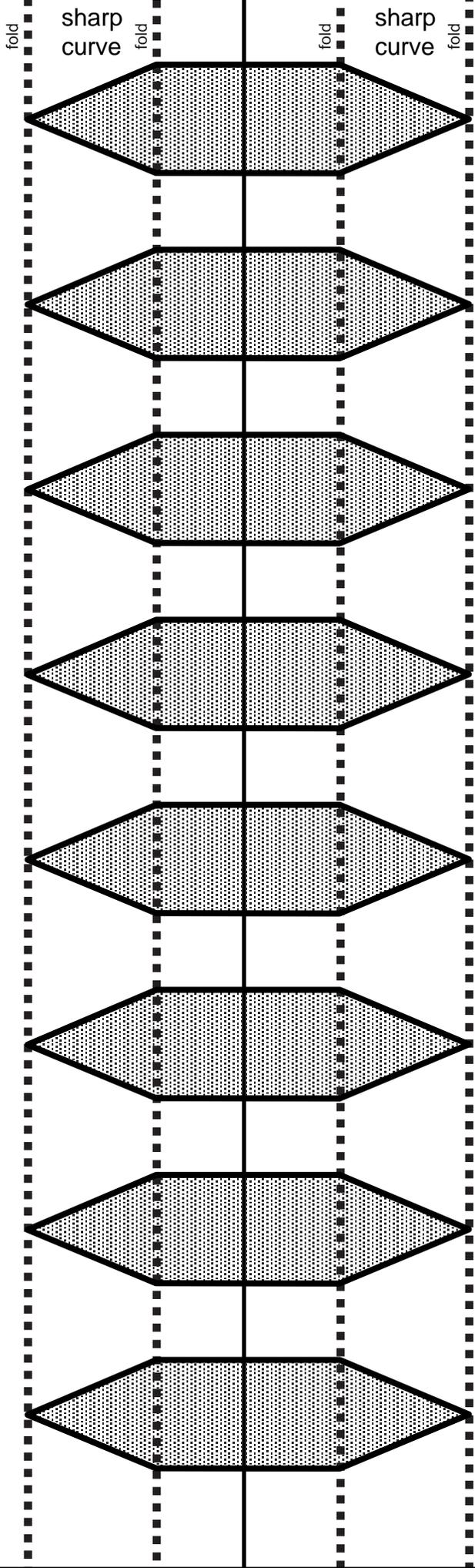
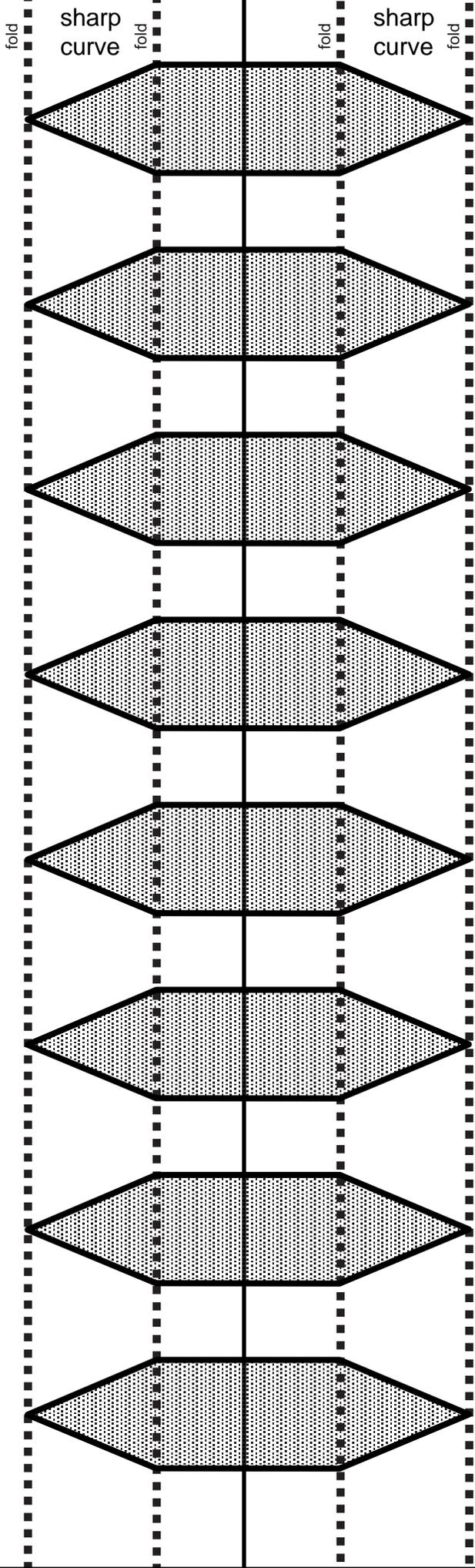
straight
track

fold

fold

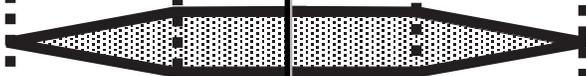
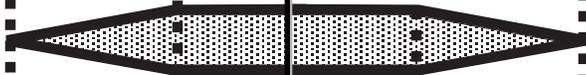
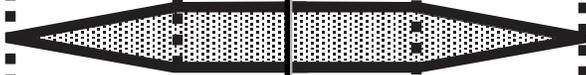
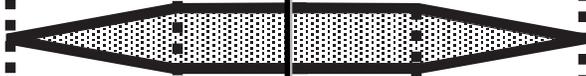
straight
track

fold



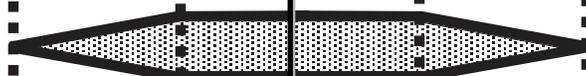
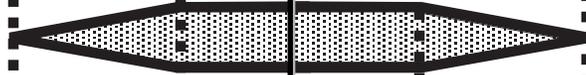
wide
curve

wide
curve



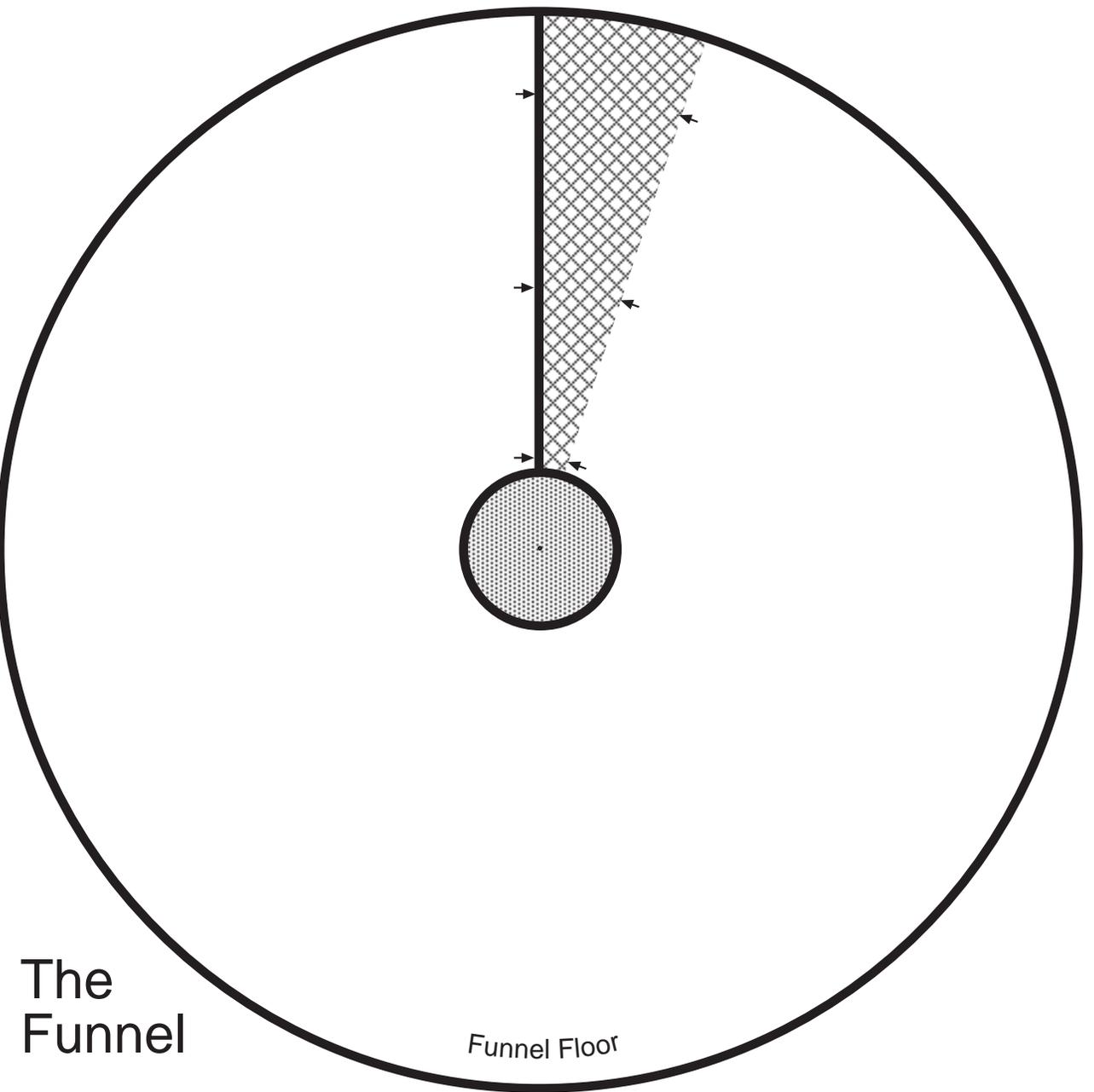
wide
curve

wide
curve





Long Funnel Wall

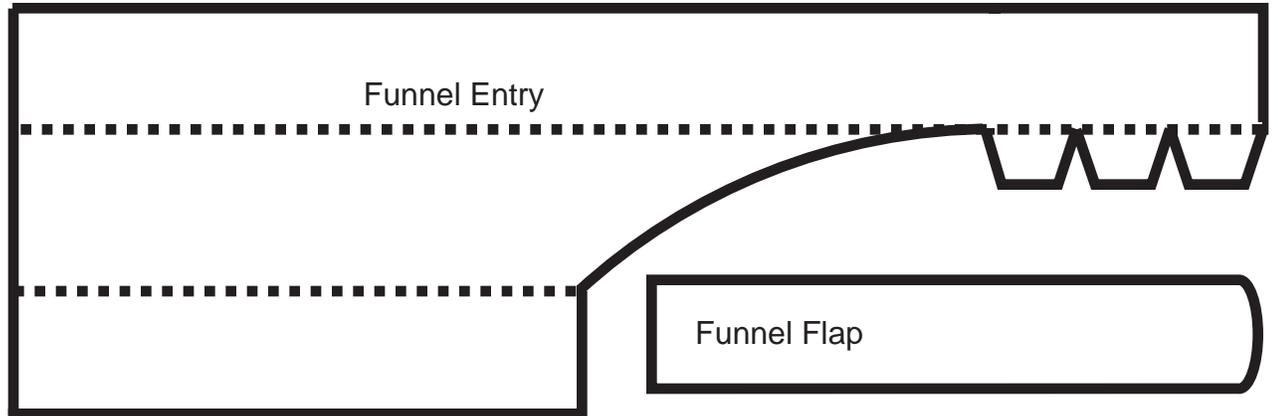


The Funnel

Funnel Floor



Short Funnel Wall



Funnel Entry

Funnel Flap

