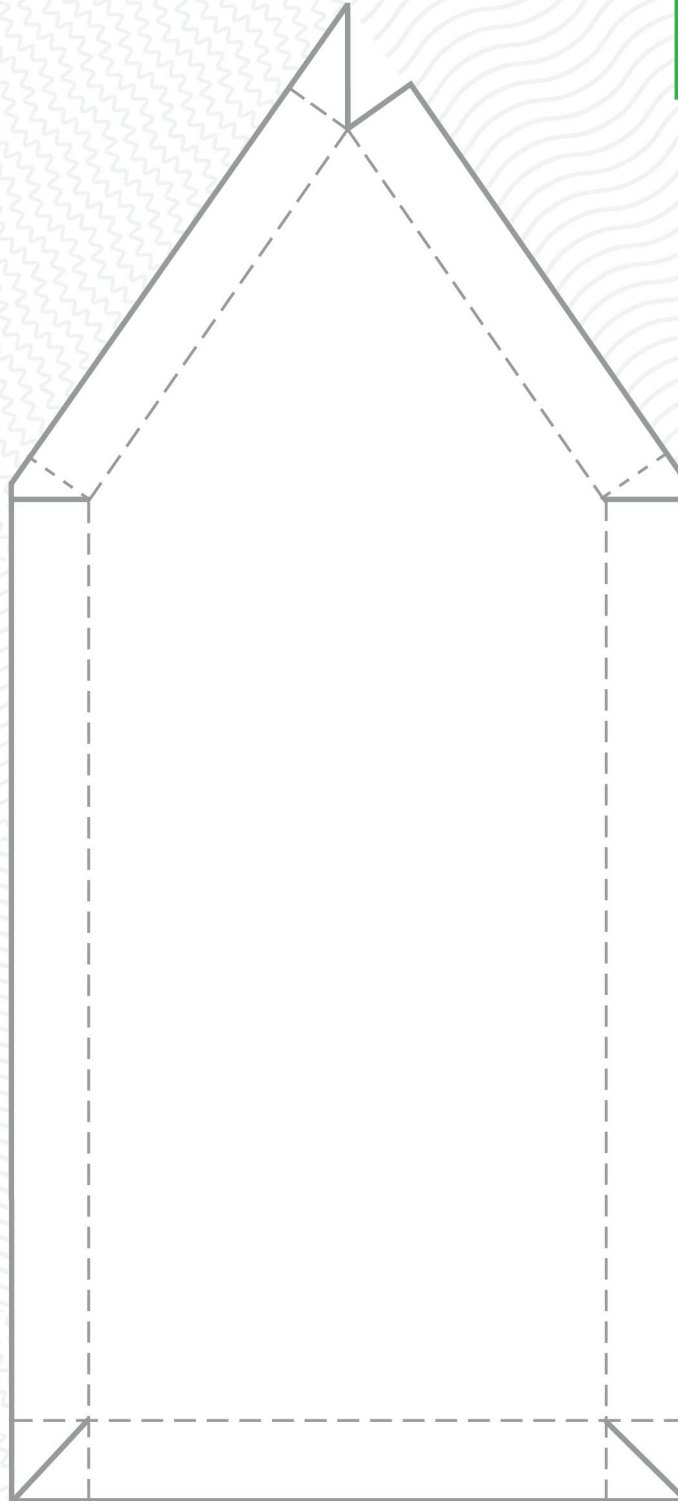


BUILD A SKIMMER



TO ASSEMBLE YOUR SKIMMER

1. Read instructional letter from Earth Toy Designs on page 2.
2. Cut the hull pattern along the solid lines.
3. Fold upwards along the dotted lines to form the side walls.
4. Use tape to secure the side walls together so they touch.



Dear Student Designers:

We need your help! The mission of EarthToy Designs, Inc. is to develop and promote toys that use recycled or recyclable materials. As you know, recycling is a very important part of taking care of our environment.

We are working on a design for our new toy called a skimmer. This is a toy vehicle that “skims” across a table or floor when blown by a fan. Please see the sample we have sent to your class.

Our designer completed a bottom, or hull, for the skimmer but, unfortunately, did not design a set of sails before she left the company. We invite your class to design a set of sails that children can attach to our toy skimmer.

It is important that each sail your class designs allows the skimmer to travel at least 60 centimeters in a straight line. Some of your sails will probably go farther than this.

In addition to this minimum requirement, here are other things we would like to see in your class set of sails:

- a variety of interesting sail shapes that children, our customers, would like
- some sail designs that make the skimmer turn
- some sails that customers can adjust to give the skimmer different paths

Your class will present its skimmer sail designs in a few weeks. Be prepared to demonstrate your skimmer and sails, present your test data, and explain why different sails give the skimmer different paths.

Good luck with your designs, and happy skimming!

A handwritten signature in black ink that reads "I. M. Green". The signature is written in a cursive, flowing style.

I. M. Green
President

SKIMMER TEST LOG


Characteristic We Are Testing:

Sail Drawing	Sail Area	Other Information

Trial	Distance	Observations
1		
2		
3		

SAMPLE SKIMMER TEST LOG

Characteristic We Are Testing:

Sail Drawing	Sail Area	Other Information
	194 sq. cm	Sail stand is at 8 cm.
		Sail height is 3 cm above the hull.

Trial	Distance	Observations
1	105 cm	Went pretty straight until the end, then it turned to the right. Sail bent a little from the wind.
2	90 cm	It was stopping and starting at the end.
3	100 cm	Pretty much like the first trial, but a little slower.