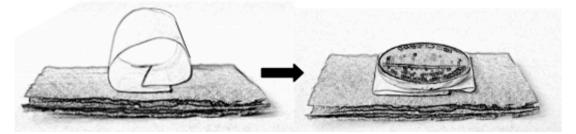
Make some sliders — Construction Tips

 To get a slider moving, add some weight to the material you're testing. We suggest using pennies. How many pennies you use on each slider is up to you.



You can use a loop of tape to add a penny, like this.



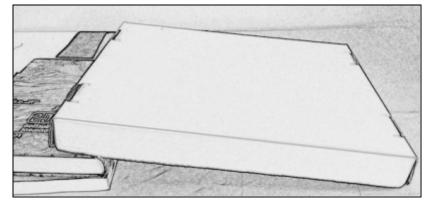
Or you can put a strip of tape over the pennies like this.

• You're testing the material, not the tape you use to hold the weight on. Make sure you don't cover the bottom of the slider with tape.

Make a slide

To make your cardboard into a slide, set one end on a stack of books and the other on the table.

You can change how steep a slide is by adding more books.



Try This! (page 2)	Name:
Experiment with your sliders	s and write down what you see.
1. What happens if I put all my slide one end of the slide?	ers on the slide when it's flat, and then slowly raise
Answer:	
What happens if I race a cardboawith no pennies at all?	ard slider with 5 pennies against a cardboard slider
Answer:	
Come up with at least 3 que	stions and answers of your own.
3. What happens if I	
Answer:	
4. What happens if I	
Answer:	

(If you have more questions, write on them on the back of this page.)

5. What happens if I _____

If you get stuck, think about:

Answer:

- how many pennies will you put on each slider?
- how you will start the sliders moving? (by setting them on a steep slide? by raising the slide?)
- how steep you will make your slide?
- how many sliders you will test at a time?
- how will you decide which slider has the least friction?

Friction Investigation Worksheet	Name:
1. Experiment to find the answer to this of friction and which materials have the LEA	question: Which materials have the MOST AST friction?
2. Method:	
We built sliders like this: (draw a picture of a slider)	We set up each trial like this: (draw your slide)
3. Describe what you will do in each trial	:
 How will you start your sliders sliding 	?
 How many sliders will you test togeth 	ner?
 How will you decide which slider has 	s the least friction?

How will you decide which has the most friction?

Friction Investigation Worksheet	
•	Name:

4. Data Collection:

Complete four trials of your experiment.

Trials	Observations / Measurements
In each box below, write down the materials you tested.	Write down observations or measurements for each trial. For example, "We observed that the cardboard began sliding first"
Trial 1:	
Trial 2:	
Trial 3:	
Trial 4:	

Friction Investigation Worksheet

Name:					

5. Claims a	and Evidence		
Our claim:	We think(material)	has the most friction.	
Evidence that supports this claim:			
Our claim:	We think(material)	has the least friction.	
	nat supports this claim:		
Our claim: \	We think		_ (list materials)
have more	friction than		(list materials).
	nat supports this claim:		
6. Addition	nal Investigation		
Next time, v	we want to try		
because			