

Name	

4th Grade Science Remote Learning Packet Week 35

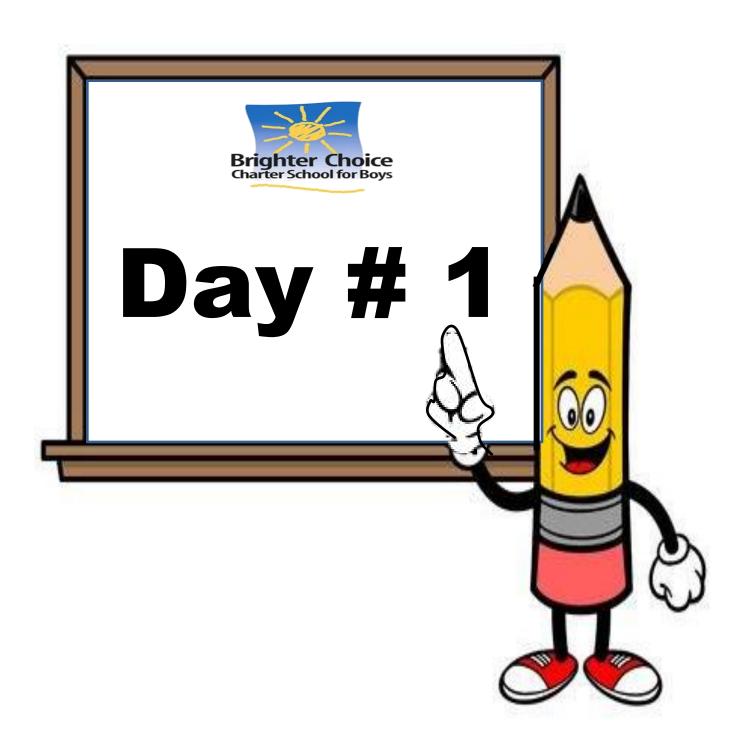


Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

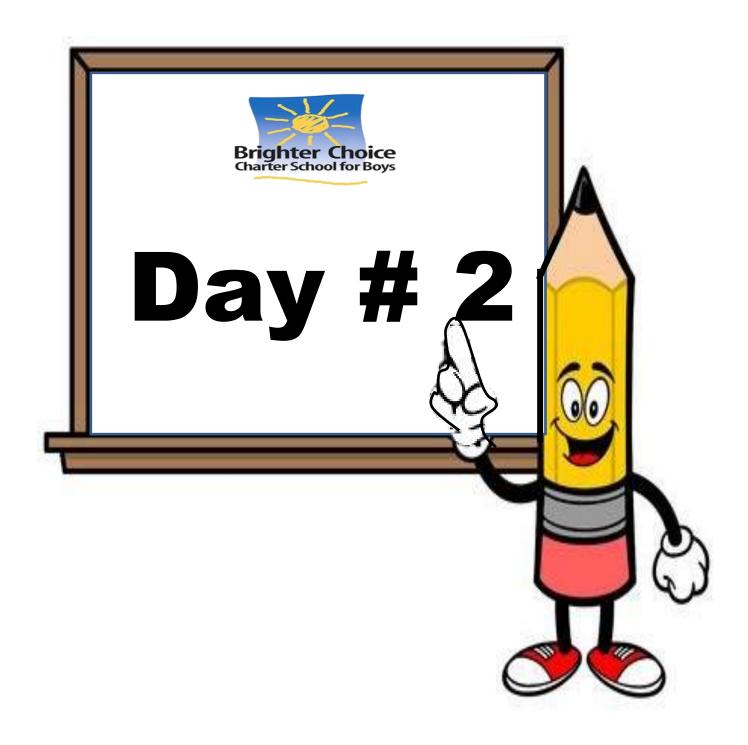
(Parent Signature)	(Date)

Parents please note that all academic packets are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



Name:	Week 35 Day 1 Date:		
BCCS-B	Howard	Morehouse	Hampton
Fo	rces and Motion		
Question: Answer the following question	•	nces.	
How does energy and matter interact as	nd change motion?		
Vocabulary: Fill in the blank with the mi			
1. Force : the or	on an ol	bject	
2. Gravity: the			other
3. Friction: the act of			
Gravity Compilation-Crash Course Kids	: Take notes while watc	hing the video.	
Notes-			
Mystery Science-How can you go faster notes during the exploration portion and sentences before discussing as a class.	•	_	
Exploration 1: Notes-			

	cussion: You can't make the slide steeper buy you want to go down the slide faster. What e could you change? (Think of your favorite slides.)
Exr	ploration 2: Notes-
	cussion: Materials that have low friction are slippery. Can you name some materials with friction?
EXI	T TICKET: Answer the following 2 questions using complete sentences.
1.	What is force?
2.	How does force cause objects to move?

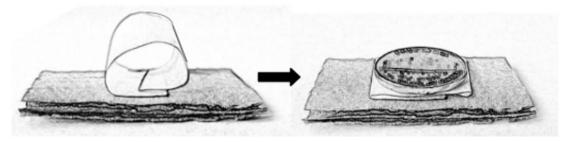


Name:	Week 35 Day 2 Date:		
BCCS-B	Howard	Morehouse	Hampton

Try This!

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.



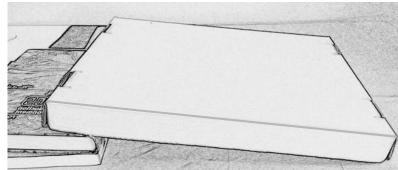
Or you can put a strip of tape over the pennies like this.

• 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!

Experiment with your sliders and write down what you see.

1. What happens if I put all my sliders on the slide when it's flat, and then slowly raise of the slide?	one end
Answer:	
2. What happens if I race a cardboard slider with 5 pennies against a cardboard slider vennies at all?	with no
Answer:	
Come up with at least 3 questions and answers of your own.	
3. What happens if I	
Answer:	
4. What happens if I	
Answer:	
5. What happens if I	
Answer:	
(If you have more questions, write on them on the back of this page.)	

If you get stuck, think about:

- 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

Method:	
We built sliders like this:	We set up each trial like this:
draw a picture of a slider)	(draw your slide)
Describe what you will do in each t	rial·
How will you start your sliders	
 How many sliders will you test 	together?
	er has the least friction?

How will you decide which has the most friction?

4. Data Collection:

Complete four trials of your experiment.

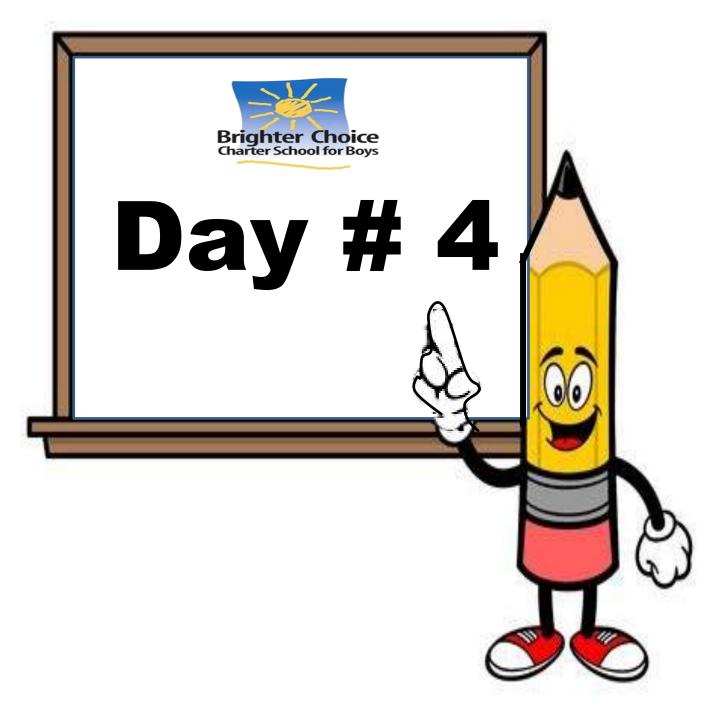
Trials	Observations / Measurements
In each box below, write down the materials you tested.	Write down observations or measurements for each trial. For example, "We observed that the cardboard began sliding first"
Trial 1:	
Trial 2:	
Trial 3:	

Trial 4:		
5. Claims and Evidence		
Our claim: We think	has the most friction.	
(material)		
Evidence that supports this claim:		
Evidence that supports this claim.	-	
Our claim: We think	has the least friction.	
(material)		
Evidence that supports this claim:		

Our claim: We think	(list materials)
have more friction than	(list materials)
Evidence that supports this claim:	
6. Additional Investigation	
Next time, we want to try	
because	



Scholars, please see the assessment attached.



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