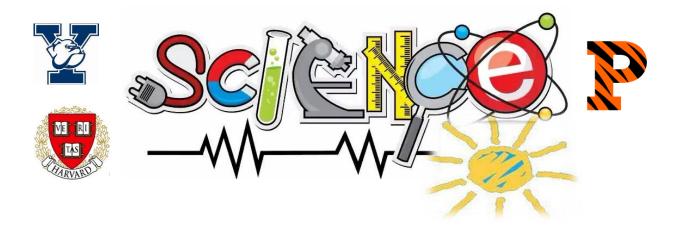


Name
Name

3rd Grade Science Remote Learning Packet Week 8

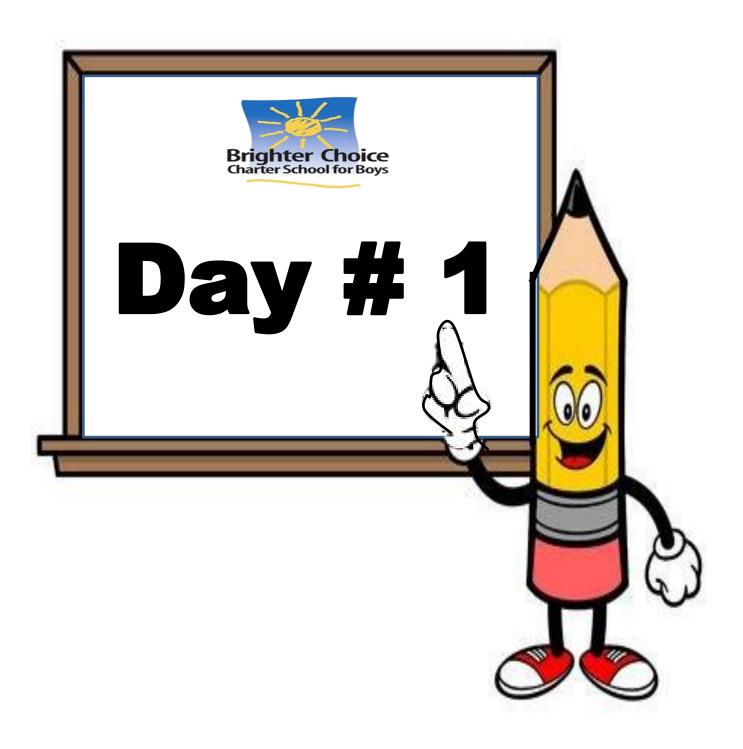


Dear Educator,

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.

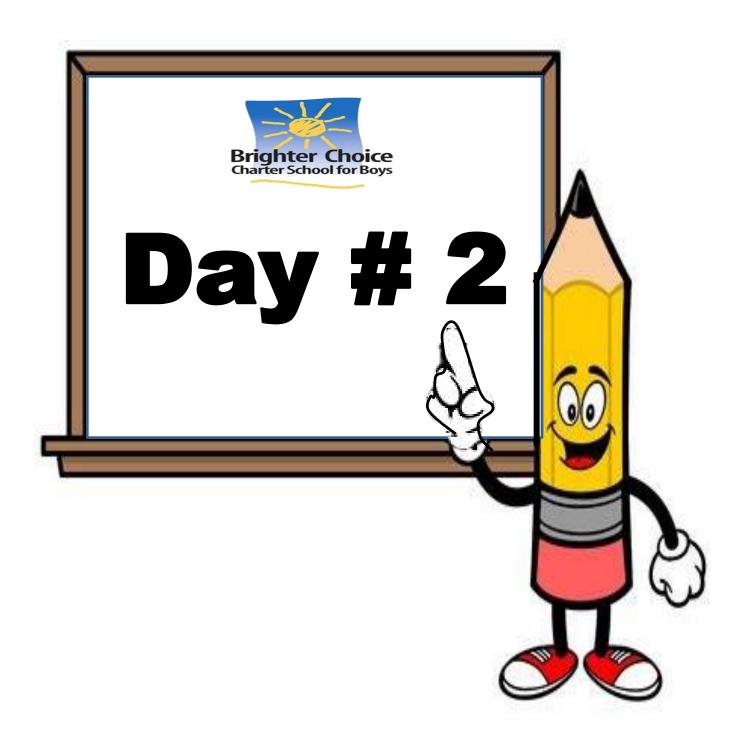
(Parent Signature)	(Date)

Parents please note that all academic 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 8 Day 1 Date:		
BCCS-B		Harvard	Yale	Princeton
	Guided Notes: How can yo	u go faste	down a	slide?
Vc	ocabulary: Fill in the blanks with the red word.			
1.	Force: to cause something to happen using _		o	r
2.	Steep: almost straight up and down; very			
3.	Friction: the act of rubbing one thing against	another; a		that
	causes a moving object to slow down when it	is touching ar	other obje	ct
4.	Gravity: the natural	_ that tends to	cause phy	sical things to move
	towards each other: the force that causes thi			
Ex	ploration 2: Discuss- You can't make the slide s	steeper but yo	u want to ${\mathfrak g}$	go down the slide
fas	ster. What else could you change? (Think of yo	ur favorite slid	es.)	

Exploration 3: Notes-
Exploration 4: Discuss- Materials that have low friction are slippery. Can you name some
materials with low friction?
Exit Ticket: Which idea from your brainstorming time are you the most excited about to try
tomorrow during our activity? Why?

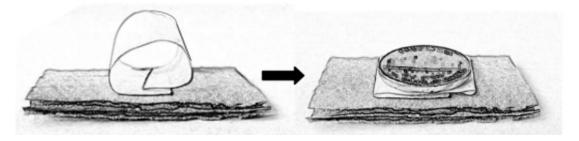


Name:	Week 8 Day 2 Date:			
RCCS_R	Harvard	ماد۷	Drinceton	

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.



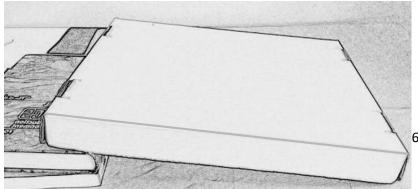
Or you can put a strip of tape over the pennies like this.

• 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.



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 one end

of the slide?
Answer:
2. What happens if I race a cardboard slider with 5 pennies against a cardboard slider with no pennies at all?
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

1.	Experiment to find the answer to this question:	Which materials have the MOST friction
	and which materials have the LEAST friction?	

2.	М	etl	hο	d:

We built sliders like this:	We set up each trial like this:	
(draw a picture of a slider)	(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 together? 		
How will you decide which slider has the least friction?		
 How will you decide which has the most 	friction?	

Friction Investigation Worksheet

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

5. Claims and Evidence

Our claim:	We think	has the most friction.	
	(material)		
Evidence th	nat supports this claim:		
Our claim:	We think	has the least friction.	
	(material)		
Evidence th	nat supports this claim:		
	We think		
have more	friction than		_ (list materials)
Evidence th	nat supports this claim:		
6. Addition	al Investigation		
	we want to try		

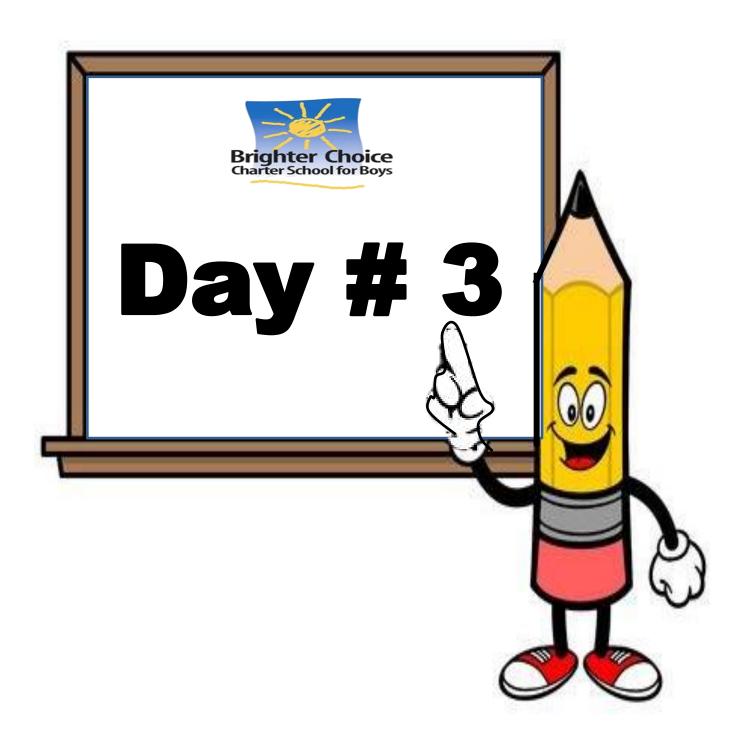
Name:	Week 8 Day	Week 8 Day 2 Date:		
BCCS-B	Harvard	Yale	Princeton	
End of	Mystery Assessment	;		

1. Imagine that you used a microscope to look really closely at the following surfaces. Draw what you think you'd see:

Material	Close-Up Drawing of Surface
stainless steel	
wood	
sand paper	

- 2. Imagine a student sliding down a slide. If the friction force is stronger than the force of gravity, what will happen? Why?
 - a. Friction force cannot be stronger than the force of gravity.
 - b. The student will continue to slide down the slide
 - c. The student will stop because of the friction force.
 - d. The student will continue because of gravity.

- 3. What are some things you could do to go down a slide faster?
 - a. I could make the slide dry.
 - b. I could make the slide steeper or make it wet and slippery.
 - c. I could make the slide lower.
 - d. There is nothing I can do.



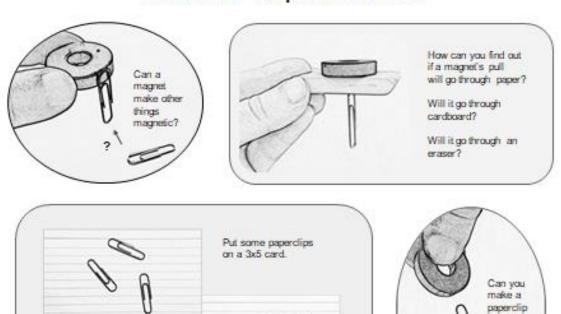
Na	ame:	Week 8 Day 3 Date:			
ВС	CCS-B	Harvard	Yale	Princeton	
	Guided Not	es: What can magne	ets do?		
Th	he Question: Answer the question in a c				
To	oday we start with the activity. Enjoy	and be curious!			
EX	XIT TICKET: Answer the questions in com	plete sentences.			
1.	What are some of the things you obser	rved?			
2.	Was there anything that surprised you	?			
3.	Why did that surprise you?				
4.	What are two or three questions you h	•			
	a				
	b				
	c				
5.	Think of at least one experiment that v	vould help answer your qu	estions		

Day 2: Vocabulary and Exploration!

Vocabulary: Fill in the blank with the missing word. The word is red on the PowerPoint presentation.

1.	Magnets: a piece of rock or a piece of metal that can certain types of metal				
	toward itself				
2.	Magnetism: the	of			
3.		cal property of being magnetic; the			
		a substance	(temporarily or permanently)		
4.	Iron: a	type of	that is very common, occurs		
	naturally in blood, an	nd is used to make steel and in many	products; a metal that is naturally		
list ma	tening. When it says N agnets do. When is say	· · ·	lp you answer the question, what can nink about your answer; then, write it down.		
Ex	ploration 4: Notes				
WI	hat happened?	RATION-What as I do a demonstration			
Ex	ploration 6: Notes				
Ex	ploration 7: Discuss-W	hat do you think you could do with r	magnets that would be interesting?		
	_	experiment and the exploration, in y	our opinion, what was the most fascinating		

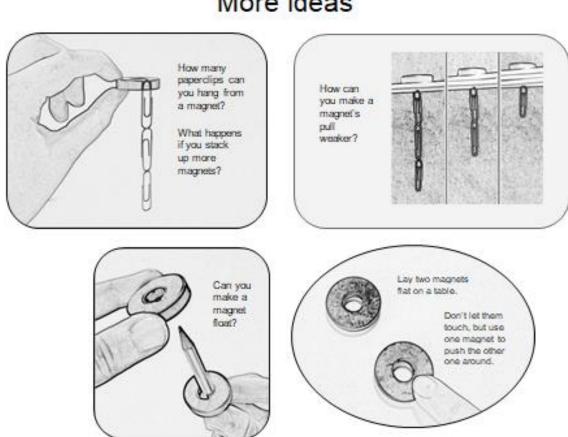
Ideas for Experimenters



Can you make them line up without touching them?

More ideas

float?



Week 8 Day 3 Date:			
Harvard	Vale	Princeton	
	Week 8 Day Harvard		

Magnets Are Weird

Questions:	My drawing of what I tried:	What happened:
1. Will a magnet's pull go through paper? Will it go through cardboard? Other materials?		
2. Can you make a paperclip float? Can you make a magnet float?		
3. Write your own question:	-	