Check It Out	What To Do	What To Ask
1. The young Moon was hit by large	Each group will model their own	How wide across is your water
asteroids.	impact with a water balloon.	balloon?
	Using a ruler, measure the shortest	
	width of the water balloon.	
	Record your measurement on the	
	Splat! comic panel.	
2. These impacts left scars that we	Break the balloon by throwing it	How big is the splash (the "crater")?
can see today: impact basins.	onto an outdoor concrete patio or	
	sidewalk.	
	Measure the width of the	
	continuous part of the splash.	
	Record your measurements on the	
	Splat! comic panel.	
3. Craters on the Moon are larger	Calculate the ratio of the size of the	How much larger is your splash
than the asteroids that created	impact to the size of the balloon.	compared to the size of the
them – 10 to 20 times larger!		balloon?
Like the water balloon, the	Record your measurements on the	
impactors broke apart when they	Splat! comic panel.	Asteroids and comets travel much
hit the Moon.		faster than you can throw a balloon.
		They are also rocky and hard. What
		do you think would happen if you
		threw the balloon faster?
		How would the "splash" caused by
		an impactor on the Moon look
4. Rooka like this Earth rook ware	Fool and atudy the rook	What do you potion about the color
4. NOCKS like this Earth fock were	reer and study the rock.	and toxture of this rock?
back to study in laboratories		and texture of this fock?
back to study in laboratories.		
On Earth these rocks, breccias		
can form in many ways ON the		
Moon breccias form when the heat		
and pressure of an impact breaks		
the rock. Some of the rock is		
melted and glues the pieces		
together into one bigger rock.		
Impacts elect the rocks far from the		
crater.		
5. Scientist record videos of	Check out the Moon map and find	Go outside sometime and look at
projectiles impacting different types	the largest features.	the Moon. Can you find the large
of materials. They study the videos	These impact basins were caused	circular features?
to see how the materials behave.	by large impacts long ago.	
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Scientists also use computer	These features changed since they	
models to imagine and test their	first formed; they are not simple	
ideas about what happens during	bowl-shaped features on the	
an impact.	Moon's surface.	
I ney also study impact craters on		
Earth, Like Barringer crater in		
Arizona.		