

Springtide Sports: Keep Moving Forward

Grade 5 Science

Name:	Date:	
Activity 1: What goes up, must come down. Do the faffects the objects, and the forces needed to move then	- · · · · · · · · · · · · · · · · · · ·	w gravity
A. Roll a ball across the floor	B. Toss a ball into the air	
1. How do you need to apply force differently when	you roll the ball from when you throw	the ball?
A. Roll the ball up a hill	B. Roll a ball across the fi	loor
Explain why you must use more force to roll the b	all up the hill than along the flat groun	nd.
3. What force causes the ball to come back when yo	ou roll it up the hill?	
4. Explain why it is more difficult for a ball to roll in the	ne grass than a polished floor?	







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Activity 2: Make predictions to answer the formass.	ollowing questions based on what you know about forces and
How can these brothers make the ho	op roll slower? (list 2 ways)
2. How can the sisters make the hoops	go higher?
3. What forces can Ben use to slow the	bicycle down?
4. Explain how a ball with more mass w	rill they have to apply more or less
force to the ball in order to get it to th	







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Activity 3: Explain how factors such as friction, grafollowing objects.	vity, and change in mass affect the movement of the
1. Imagine a place far from all gravitational and frictio suppose) and toss a grace ring. The ring will: (circle t	nal influences. Suppose that you visit that place (just the best answer)
a. gradually stop. b. continue in motion in the same direction at the why?	•
· ·	sed by a very large buffalo that he startled. The enormous sen makes a zigzag pattern through the woods, he will be dvantage. Explain how?

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