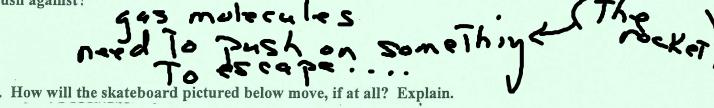
Name:	

## CAMERAS! ACTION!! REACTION!!!

1. If two teams are having a tug of victory, Newton's third law states that they must always pull equally hard on each other. What, then, determines the winner?

How much The ground can
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Insh buck and how much The
Can push
ted away from Earth by its rocket engines. 2. A spacecraft is accelerated away from Earth by its rocket engines. Once the craft is far out in

space, how can the rockets continue to accelerate the ship if the escaping gases have nothing to push against?



3. How will the skateboard pictured below move, if at all? Explain.



4. Two 10 Newton weights are attached to a spring scale as shown in the diagram. What would be the reading in the spring scale? Explain.



5. If a heavy object is suspended as shown, and the bottom string is pulled sparply, which string will break? Explain. What is the result if the bottom string is pulled with a slow, even motion? Explain.

