

Skater on a Halfpipe

[Go to this simulation](#)

Essential Question - What happens to the height of a skateboard on a halfpipe over time?

Initial Thoughts -

Going Up One Side	Distance
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Model

## Notes

### Questions

1. What is the law of conservation of energy?
2. What is potential energy?
3. What is kinetic energy?
4. What is the total energy of the system?
5. What is friction?

### Analysis

1. What happens to the height of the skater over time?
2. Where does the skater have the most potential energy?
3. Where does the skater have the most kinetic energy?
4. Why wouldn't the skater go higher up each time it travels up a side?