Class Activity: Let's Make a Deal

The Let's Make a Deal television show, with Monty Hall, presented three doors to contestants. Behind one door was the prize of the day and behind the other two doors there were gag gifts. Contestants were asked to choose one door to open. Monty Hall would then open one of the other doors to reveal a gag gift. The contestant was then asked whether he or she wanted to stay with the door chosen or to switch to the other closed door. Would it matter if you remained or switched?

- Make a prediction if it would matter if you remained or switched doors. Explain your reasoning.

- Use the web link to play the game at least 30 times (at 15 where you switch and 15 where you stay).

  Link http://www.shodor.org/interactivate/activities/SimpleMontyHall/

Game #	Switch Win or Lose	Game #	Stay Win or Lose
1		16	
2		17	
3		18	
4		19	
5		20	
6		21	
7		22	
8		23	
9		24	
10		25	
11		26	
12		27	
13		28	
14		29	
15		30	

Switch	
Wins	
Losses	
Stay	
Wins	
Losses	

- Does this data affect your conjecture? Play some more if needed to finalize your decision. What does your experimental data tell you? Compare your results with a partner and discuss.