Free Fall: Timing is Everything	Name
Learning Objective: SWBAT determine how to	to drop three or four objects from different heights AT THE
OK Go - The One Moment - Official Video	SAME TIME and have them land AT THE SAME TIME.
	OK GO Video:
	https://www.youtube.com/watch?v=QvW61K2s0tA
CASE AND STATE OF THE STATE OF	Prediction: How can your group drop objects from
	different heights SIMULTANEOUSLY to get them all to hit
	the floor at the same time? A drawing might be helpful as
	you come up with preliminary ideas for this to contribute to
▶ H	your group
Activity: In groups of four to five, drop one less object then there are people in your group from	
different heights AT THE SAME TIME and get them to land at the same time. Take slo mo video of at	
least 3 trials to show your group trying to accomplish this goal by the last of those trials. There will be	
2 bonus points given to each member of groups that accomplish the task EXACTLY.	
Modeling on whiteboards afterward: Explain how you had to drop the objects simultaneously to get them to	
hit at the same time. <u>Make sure to include your new friends XAT and VAT along with ideas from today's</u>	
discussion about air resistance and masses of falling objects.	
Group ideas as you try to achieve the "land at the same time" drops:	

Your final group product:

- A Google Slide presentation that first has <u>your minimum of 3 videos</u> on <u>separate slides showing your BEST 3 ATTEMPTS to accomplish</u> the task where all 3-4 objects hit the floor at the same moment. MAKE SURE I HAVE BEEN GIVEN PRIVILEGES TO VIEW YOUR VIDEOS!
- A final slide with a photo of your white board modeling explaining how you were able to make it happen. <u>Include XAT, VAT and discussions</u> of the different or equal forces at work on the objects.