

JUMP! Activity Data Sheet

Group Members: _____

Part One: Choose one of your group members to perform the vertical jump three times and record each trial in the table below. Find the average of your three trials.

Jumper One Data Table	
Trial	Standing Reach Height (in)
1	
2	
3	
Average	

Jumper One Data Table	
Trial	Highest Point of Measurement Jumping (in)
1	
2	
3	
Average	

Average Highest Point Measurement – Average Standing Reach Height = Vertical Jump Height

Calculate the Vertical Jump Height here: _____

Part Two: Choose three variables your group agrees impacts an individual's ability to jump higher. Record those variables for Jumper 1 and include them in the data table below.

Variables	Jumper One Measurements

Part Three: Use the space below to design an equation using Jumper 1's average vertical jump measurements and variables.

Write your final equation here: _____

Part Four: Choose another group member to serve as Jumper Two. Record their data for each of the same variables used for Jumper One.

Variables	Jumper Two Measurements

Part Five: Plug Jumper Two's variables into your equation and predict how high they should be able to jump.

Prediction Based on Equation: _____

Part Six: Have Jumper Two complete the vertical jump three times. Record each measurement in the table below and calculate the average.

Jumper Two Data Table	
Trial	Standing Reach Height (in)
1	
2	
3	
Average	

Jumper Two Data Table	
Trial	Highest Point of Measurement Jumping (in)
1	
2	
3	
Average	

Calculate the Vertical Jump Height here: _____

Was your prediction correct? Yes No

Part Seven: If your prediction was not correct, use the space below to create an equation to better fit your data.

Write your final equation here: _____