Use your speed equation to answer the question. Show all steps. Feel free to use a calculator.

Bonnie rode her skateboard 195meters (m) in 30 seconds (s). Raul rode his unicycle 300m in 50s. Who traveled faster? How much faster?

On GOOS paper



- 1) Write equation
- 2) Substitute with units
- 3) Solve
- 4) Box answer with units

Learning Target: I can accurately gather data to answer the investigation question.



Bonnie rode her skateboard 195meters (m) in 30 seconds (s). Raul rode his unicycle 300m in 50s. Who traveled faster? How much faster?

Bonnie
$$S = \frac{d}{\Delta t}$$

$$S = \frac{195m}{30s}$$

$$S = 6.5m/s$$

Raul $S = \frac{d}{\Delta t}$

$$S = \frac{300m}{50s}$$

$$S = 6m/s$$



Bonnie traveled 0.5m/s faster.

Target:

Learning I can accurately gather data to answer the investigation question.

Speed #4 12/01

Speeds

1st ramp 2nd ramp 3rd Ramp height height Height

Round to

Work Quietly!!!!!!!!

- 1) Write equation
- 2) Substitute with units
- 3) Solve
- 4) Box answer with units

hundredths of a second

(2 decimal places)

Learning Target: I can accurately gather data to answer the investigation question.

Ramp and Car investigation
Question

Hypothesis

Variables

MV- Height of a ramp

RV- Speed of the car

CV- distance of 200 cm

Learning I can accurately gather data to answer the investigation

Target:

question.

12/01	Speed	#4
	Materials Car Measuring tape # of books	Ramp Timer Tape to mark Xi and Xf Passenger.
	<u>Diagram</u>	You must show reference points and x _{i and} x _f
	<u>Procedures</u>	
Learning Target:	I can accurately gather data to answ question.	er the investigation

11/30	Speed	1. Place the	ramp d	on 3 books.	Make sure	#4
		the end	of the b	ooks match	the end of	
Procedures Procedures		the ramp	•			

- 2. Use the tape to mark Xi and Xf 200cm.
- 3. Place the ----on the back of the ramp.
- 4. Use the tape to mark Xi and Xf 200cm.
- 5. Release the car and at the same time start the timer.
- 6. Stop the timer when the car reaches the Xf.
- 7. Record the time interval in the data table.
- 8. Repeat steps 2-6 for 2 more trials.
- 9. Repeat steps 2-7 for _books and then _books.

ng Target: I can plan an investigation to calculate the d of a moving object.

12/01 Speed #4

Data Table

4					
# of Books	2 Books	3 Books	4 Books		
Trial 1 (s)					
Trial 2(s)					
Trial 3 (s)					
Average (s)					
9~	$S = \frac{d}{t}$	$avS = \frac{d}{t}$	a0 S = 9 t		
		J			
	Round to hundre				

Learning I can accurately gather data to answer the investigation Target: question. 12/01 Speed #4

Speeds

1st ramp 2nd ramp 3rd Ramp height height Height
$$S = \frac{d}{avL}$$
 $S = \frac{d}{avL}$ $S = \frac{d}{avL}$

- 1) Write equation
- 2) Substitute with units
- 3) Solve
- 4) Box answer with units

Learning I can accurately gather data to answer the investigation **Target**: question.

12/01 Speed #4

Conclusion/Results

- Answer the investigation question.
- Provide supporting high data
- provide supporting low data
- Say how this data supports your conclusion. (the car went ____faster when the ramp was highest.)

Learning Target: I can accurately gather data to answer the investigation question.

CLEAN UP

BUCKETS: At the back of the room with tape, measuring tape, timer cars

TEXT BOOKS: In neat piles on the shelf

CALCULATORS: Returned to me. I have 9

WHITE BOARD PENS: Return to bucket

SOFT TOYS: Return to my desk