02/06 Speed Investigation #4

Entry task Problem

Mrs Frearson observed avalanche debris. She saw that the snow traveled 500m and was told it took just 2 minutes.

1. What was the speed of the avalanche?
2. What was the speed of the avalanche in (km/hr)

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

$S = \frac{500m}{2min}$

$S = 250\ m/min$

$S = 15{,}000\ m/hr$

$S = 15km/hr$

LEARNING TARGETS

I can analyse data to descibe the speeds of moving objects.

Figure 1

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Boat	Δt (s)	d (m)
Mango	90	150
Perky	100	100
Whisper	30	150
Tornado	60	120

On a distance V Time graph the steeper the line the faster the object is moving.

1. calculate the speed for each boat, using the 4 rules!
2. List the boats from fastest to slowest
3. What does the length of the graph line tell you about the boat's speed?

Mango
$s = \frac{d}{t}$
$s = \frac{150m}{90seconds}$
$s = 1.67m/sec$

Perky
$s = \frac{d}{t}$
$s = \frac{100m}{100s}$
$s = 1m/s$

Whisper
$s = \frac{d}{t}$
$s = \frac{150m}{30sec}$
$s = 5m/sec$

Tornado
$s = \frac{d}{t}$
$s = \frac{120m}{60sec}$
$s = 2m/sec$

1. Whisper
2. Tornado
3. Mango
4. Perky

LEARNING TARGETS

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Figure 1

In the lab:

You need to find information around a topic that you might choose for your science fair project.

yor first turn in date is Feb 11th when you need to turn in the signed yellow sheet.

LEARNING TARGETS

I can analyse data to descibe the speeds of moving objects on an inclined plane.