

Agenda

entrance task erod

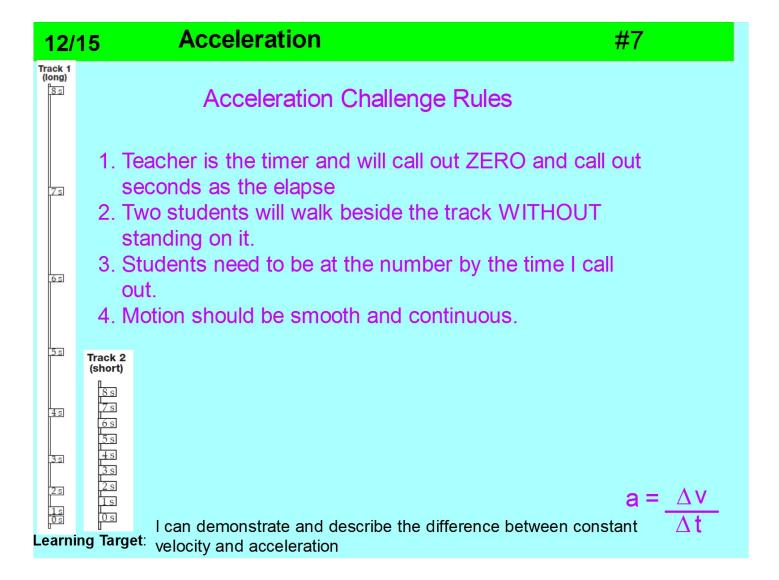
In your journal write what you know about constant speed and acceleration

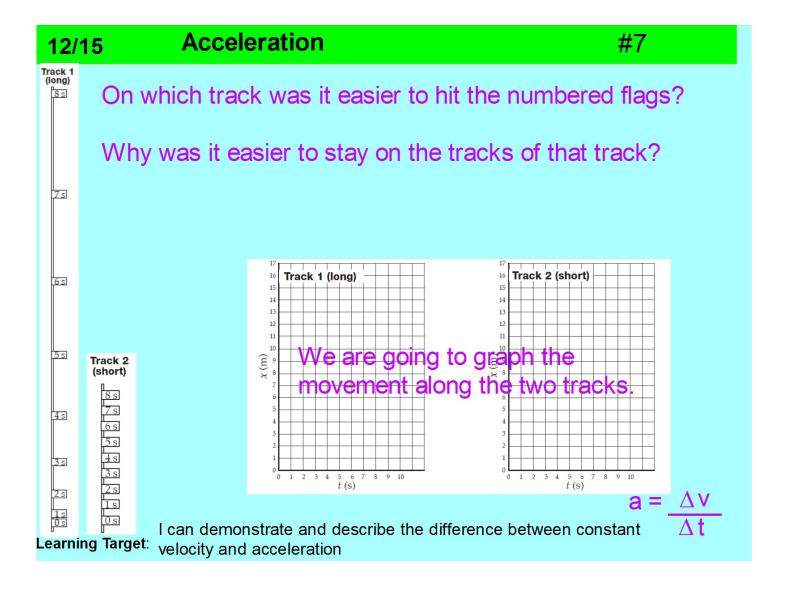
Use the example of the Iditerod to help you explain.





I can demonstrate and describe the difference between constant velocity and acceleration





When physicists think about how fast an object is moving they study how far it moves in a length of time (speed) and *the direction it travels*. Speed and direction together is velocity

We calculate velocity by dividing the change in position by change in time

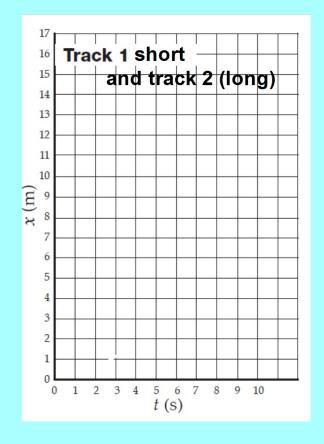
This is for your information only in our work we will use the terms *speed* and *velocity* interchangeably.

 $a = \Delta V$

I can demonstrate and describe the difference between constant Learning Target: velocity and acceleration 12/15

Acceleration

#7



Track 1

Track 2

t (s)	<i>x</i> (m)	
0	0	
1	0.5	
2	1.0	
3	1.5	
4	2.0	
5	2.5	
6	3.0	
7	3.5	
8	4.0	

t	X	
(s)	(m)	
0	0	
1	0.25	
2	1.0	
3	2.25	
4	4.0	
5	6.25	
6	9.0	
7	12.25	
8	16.0	

Track 1 _____track 2

a = <u>∆ ∨</u>

I can demonstrate and describe the difference between constant Learning Target: velocity and acceleration Acceleration (a) is a change in speed (velocity) per unit of time.

If there is no change in speed per unit of time then the object is moving at a constant speed.

$$a = \frac{\Delta V}{\Delta t}$$



(p. 165 describes this well)

I can demonstrate and describe the difference between constant Learning Target: velocity and acceleration

