

VELOCITY and SPEED: Dance and Movement



Movement/Dance

Non-Locomotor

Motions made while

Dancers using non-locon velocity hts. y

bend, stretch, twist, or swir their body.

Locomotor Motions cressed moving across SPACE

Dancers using

walk, run, gallop.

MOTION with speed and/or velocity

MOTION with

No speed/no



The SCIENCE OF DANCE

Body

Parts: Dance can focus on different body parts: legs, fingers, toes, head, elbows, shoulders etc.

Body parts can be move in isolation or jointly

Body parts can be *open*, *closed* or relaxed

Shape: the body can contort itself into different shapes (i.e., curves, angles)

Energy

The use of energy while moving: expressivity of the movemen

WEIGHT: Heavy or Light

FLOW: Free or Bound, Sharr or Smooth, Tense or Relaxed

SPACE: Direct or Indirect

TIME: Quick or Sustained

SPACE

patterns he akes in on the red

TIME

TEMPO - the speed of ne novem :: f t, s/

VELOCITY

Plan orizont or vertical

Dir ction

f rward,
backwards,

forward, backwards, diagonally, sideways, up, down, place, middle

SPEED

r ring ttern o cent or stape performed in such a way as to give emphasis



Dance is often used to tell a story, convey a message



Like a story or a book, each dance has a beginning, middle and an end. Dance is made up "movement materials", connected into "phrases" and put together into a complete dance.

Choreography is a

matter of science

A dancer or a choreographer communicates his/her ideas, thoughts, and feelings through movements.

These movements are structured and repeatable, in that they can be taught to others as a dance.



MOTION =
MOVEMENT

Choreograph a Dance and Measure it's Speed/Velocity

Determine and practice dance movement/ series of movements that you will perform in your dance.



Perform your dance in a straight pathway from the designated start and finish points.



Calculate the speed (tempo) of your dance by dividing the distance by the time it took you to perform your dance.





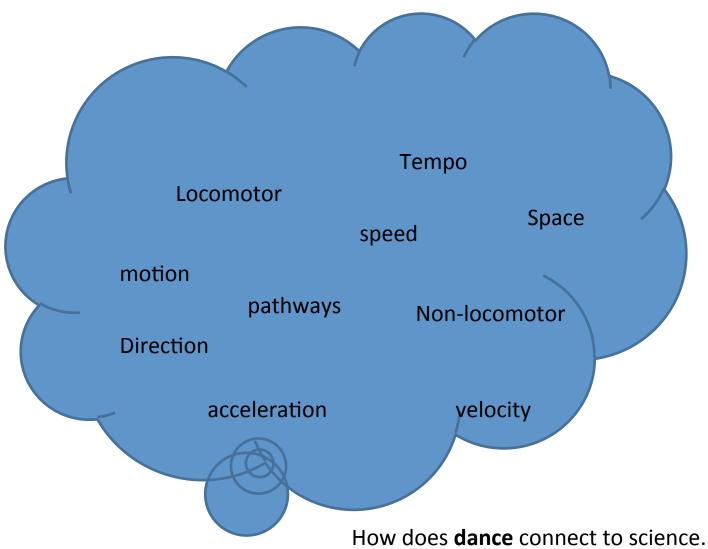
Change your velocity!
Line Dancing: go
forward and backward
by following the steps!



Now, calculate your acceleration while doing the dance.







How does **dance** connect to science. Use at least FIVE (5) of the above words to describe your dance in scientific terms.