## Dynamic Physical Education Lesson Plans for Elementary and Secondary School Students<sup>©</sup> Converting Steps to Miles

Grades 4-12

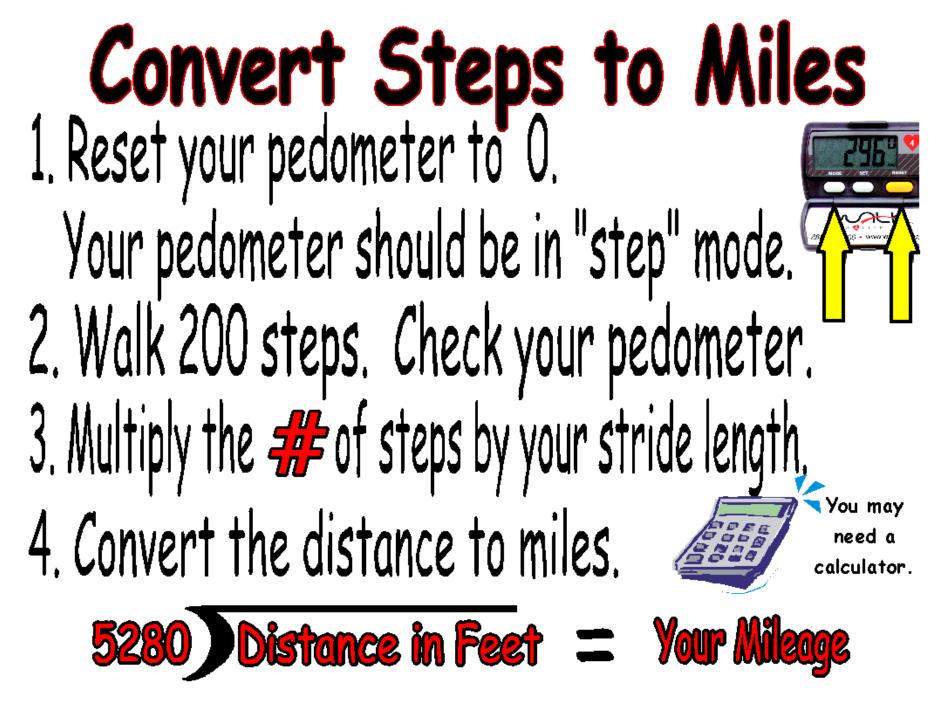
Objectives:	Equipment Required:
To be able to convert total steps to distance covered in	One pedometer for each student
miles	Belts for pedometers (if needed)
To be able to calculate miles per hour based on the	Converting steps to miles record
distance covered in a selected time period	sheet
	Pencils
	Containers for pedometers
Instructional Activities	Teaching Hints

	8
1. Have students place the pedometer in the step count mode and reset them.	This activity is for middle/high school students.
2. Tell students they will walk for 10 minutes. Ask them to guess how far (in miles) they will be able to walk in that amount of time.	Any amount of time is satisfactory. The purpose of the activity is to teach students an understanding of how far they walk in a certain amount
3. Students will walk for approximately 10 minutes. The	of time.
purpose of the activity will be for each student to see how far	
they actually travel in relation to their guess.	Moderate to vigorous activity
and y actually dated in relation to their guess.	is often defined by walking 3
4. Stop the class at the end of the 10 minute walking period	to 3.5 miles per hour.
and have students open their pedometers and check the number	
of steps they accumulated on their calculation sheet.	If possible, have students walk
of steps mey accumulated on men carculation sheet.	on different terrain, uphill and
5. Ask students to multiply the number of steps they	downhill. This will help them
accumulated by their stride length (determined in the previous	understand how hills and
activity). Convert the distance to mileage by dividing their	valleys can impact their
distance in feet by 5,280. To calculate their miles per hour,	walking speed. For example,
have students multiply their distance in miles by 6. That will	hikers and mountain climbers
be their speed if they have walked 10 minutes as described in	would not cover that much

distance because of the rough

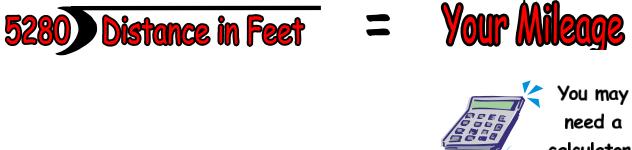
terrain.

Step 2.



## **Converting Steps to Miles**

- Multiply your number of steps times your stride length.
  Steps X Stride Length (in feet) = Distance in Feet
- 2. Convert this answer (distance in feet) to miles by dividing 5,280 into the number of feet you walked.



## **Converting Steps to Miles**

- 3. Multiply your number of steps times your stride length. Steps X Stride Length (in feet) = Distance in Feet
- Convert this answer (distance in feet) to miles by dividing
  5,280 into the number of feet you walked.







You may need a calculator.

## **Converting Steps to Miles**

5. Multiply your number of steps times your stride length. Steps X Stride Length (in feet) = Distance in Feet

6. Convert this answer (distance in feet) to miles by dividing 5,280 into the number of feet you walked.



