

Oklahoma State University  
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A&S 2000:



Notes with Gaps

Week 5: Dinosaur Movement

How to Animal and Dinosaurs Make Tracks?

Define each of the following terms:

- Bipedal
- Quadrupedal
- Stride Length
- Foot Length

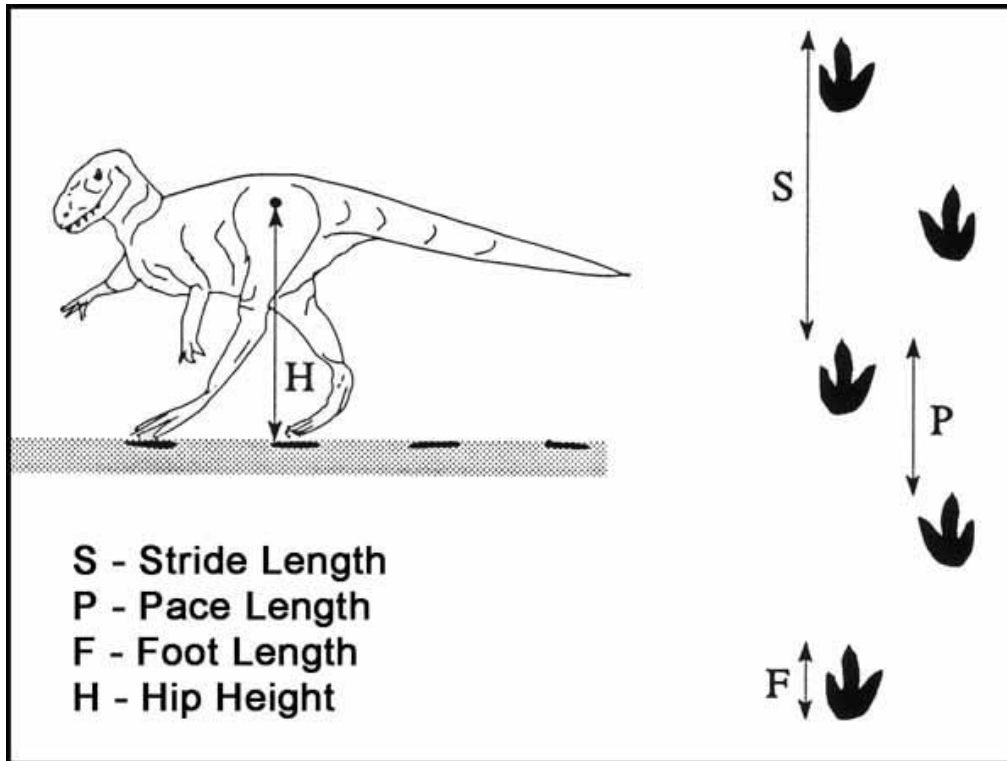
Describe the track patterns left by each type of Dinosaur listed below

- Theropods
- Sauropods
- Ornithopods
- Ceratopsians
- Ankylosaurus
- Stegosauria
- Pachycephalosaurus

**Hands-on Activity**

**Part 1: Looking at the Tracks**

Today we will be looking at three trackways of T-rex and calculating the movement of the dinosaur in each set. You will then be comparing your speed vs that of a T-rex.



Using the excel file embedded on the Canvas Assignment, plug in the numbers I have provided to you for Foot Length and Stride Length to calculate the speed of the dinosaur using the final column.

You don't have to use this table below, but if it is helpful to record your data here, please do so.

| A       | B           | C   | D                             | E  | F                                     | G  |
|---------|-------------|---|-------------------------------|--|---------------------------------------|--|
| Station | Animal Name | <b>Measured</b><br>Foot/Track Length (FL) in cm | Estimated Hip Height =Col Cx4 | <b>Measured</b><br>Stride Length (S) in cm | Relative Stride Length (RSL) =Col E/D | Speed<br><2.0=Walk<br>2.0-2.9=Trot<br>>2.9=Run |
| 1       | T-rex       |   |                               |  |                                       |  |
| 2       | T-rex       |   |                               |  |                                       |  |
| 3       | T-rex       |   |                               |  |                                       |  |
| 4       | Human       |   |                               |  |                                       |  |
| 5       | Human       |   |                               |  |                                       |  |

**Part 2: Can you outrun it?**

To complete this exercise you will need:

- a tape measure



