



# Measuring Trees

in my Jersey City Neigborhood

Follow the steps below to complete STEP 4 in the Adventure Packs Game on the other side of this paper.

#### STEP 1

#### Measure a tree's caliper

#### Caliper is the diameter of a tree's trunk.

- First, stand at breast height to the tree. Aim for 4.5 feet above the ground.
- Wrap your measuring tape around the tree trunk to find its circumference. Then use a calculator to divide the circumference by 3.14. This new number will be the diameter of the tree, or caliper.

Use the formula: Caliper (or Diameter) = Circumference/3.14

### If a tree has multiple stems, follow these steps:

- If the tree is two or more trees that have their trunks pressing together: Measure the largest trunk.
- If the tree is a single tree, but splits below 4.5 feet: Measure at the narrowest point between the split and the ground.
- If the tree is a single tree and the split is above 4.5 feet: Measure the trunk at 4.5 feet.

#### STEP 2

#### Measure the pit

#### A tree pit is an underground soil area for tree roots.

- Tree pits are essential for the growth and survival of a tree in the city.
- They give the tree room to spread its roots to gather water and nutrients.
- A tree pit should be a minimum of 5 by 5 feet.

#### STEP 3

#### Record the date

It is very important to record the date you made your measurements.

In the city there are many factors that can influence the health of a tree. So it is important to stay updated.

#### STEP 4

# Identifying the location (lat/long) data

- A way to collect location data is to write down the nearest address or cross streets.
- If you do have a smart phone, use the maps function to find the tree's latitude and longitude.

#### **Start by opening Google maps**

- Stand next to the tree and allow location services to locate you and your tree. "Drop a pin" by holding your finger down on vour location.
- The latitude and longitude will appear on the top of screen in a search bar. Latitude will be

## easuring trees,

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rather than relying on the measure of a tree's height or the width of its leafy canopy, trees are measured by their Caliper.

Tree Burl

Tree Scar

**Breast Height** 

**Tree Roots** 

**Tree Pit** 

**Small Trunk** 

Large Trunk

- Look for concrete or bricks that have, otten tangled in the roots. These car hinder the tree's ability to absorb water and nutrients.

#### Identifying the health of a tree .

STEP 5

Measure the health of a tree using a scale from 0 - 3.

for empty tree pit	for dead trees
for trees that look sick*	for full, vibrant, healthy trees

They may have a lot of dead or cut branches, and/or show signs of decay.

number without minus sign. Longitude will be the one with the minus sign.