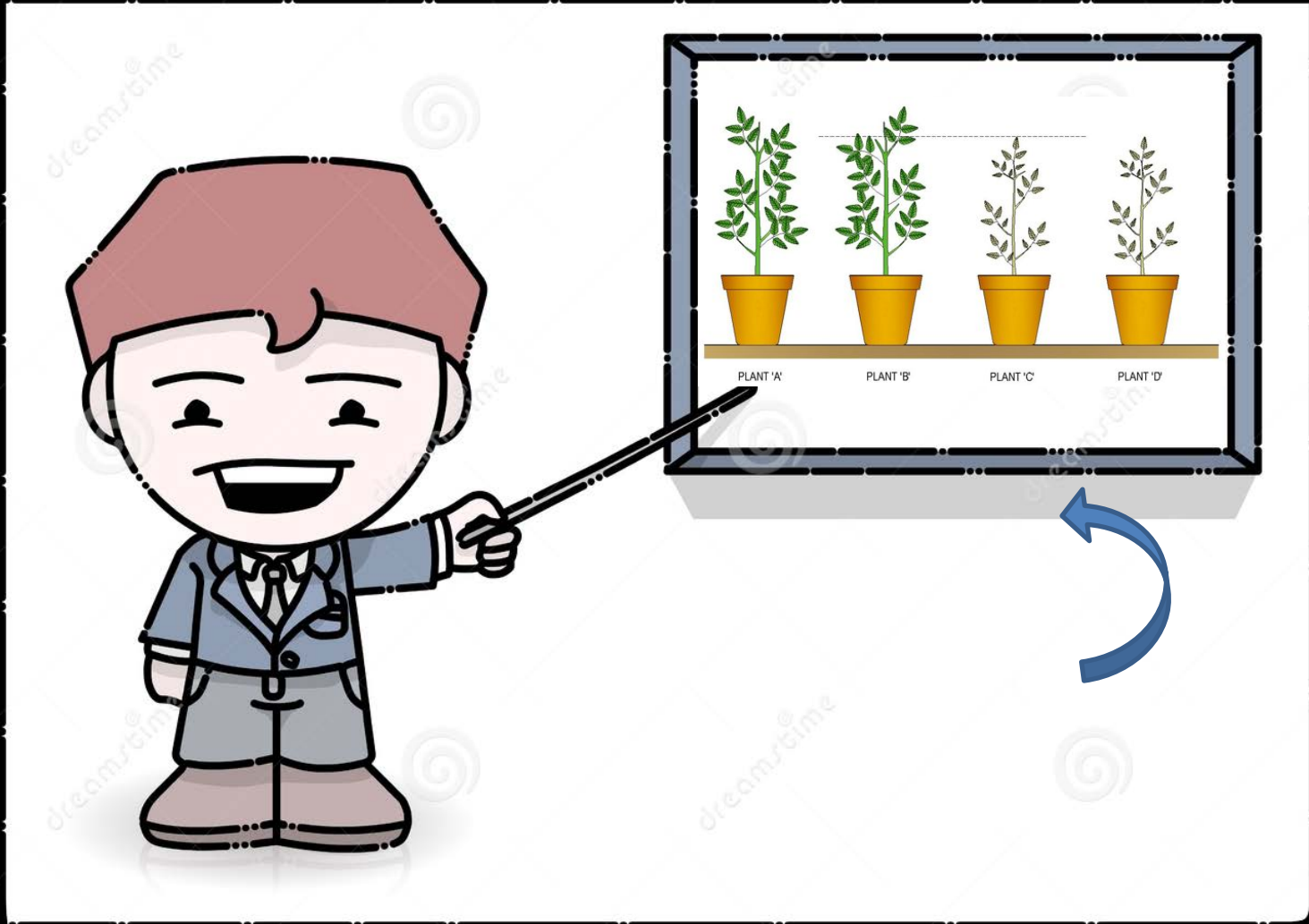


The Scientific Method & Rain Gauges



The Scientific Method

What



The Scientific Method

Terminology

The hypothesis that plant growth won't change between the two populations is the **null hypothesis**

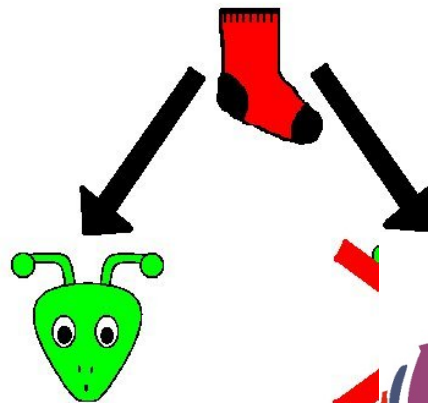
The hypothesis that plant growth will stop without sunlight is the **alternate hypothesis**

Varying the amount of

The growth of the plant

Using the same type of watering schedule makes

Q. Where have all my socks gone?



Alternate Hypothesis

Null Hypothesis

=

Extra-terrestrial beings have transported themselves into my house in order to steal my socks.

Aliens are so the di

Independent Variable

Influences **CHANGE** in the

Dependent Variable

Using the Scientific Method This Week

Think about precipitation

What is the weather normally like in June?

Research climate and weather

What is the average precipitation in Vermont this time of year?

Look at historical weather data for this area (worksheet)

Develop a hypothesis about precipitation and predict results

I hypothesize that more precipitation will fall over night than during the day

Collect data (today through Friday)

Rain gauges!

Analyze results

How do these results support or contradict your hypothesis?

Present to the group (Friday)

Use excel to make graphs, compare with historical data

Rain Gauges

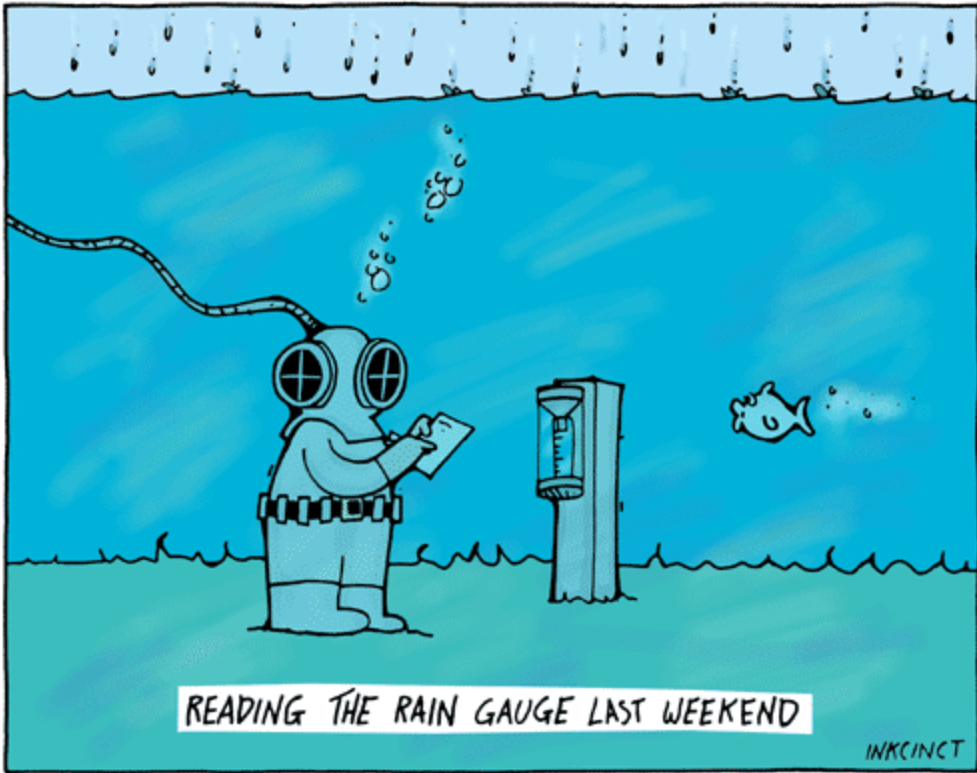


Moore Texas by Roger Moore Jan 25, 1965

An official weather station in Lubbock recorded 3 inches of dust in the rain gauge.

<http://www.texasescapes.com/Cartoons/20110124-Jan-25-1965-LubbockDustStorm.htm>

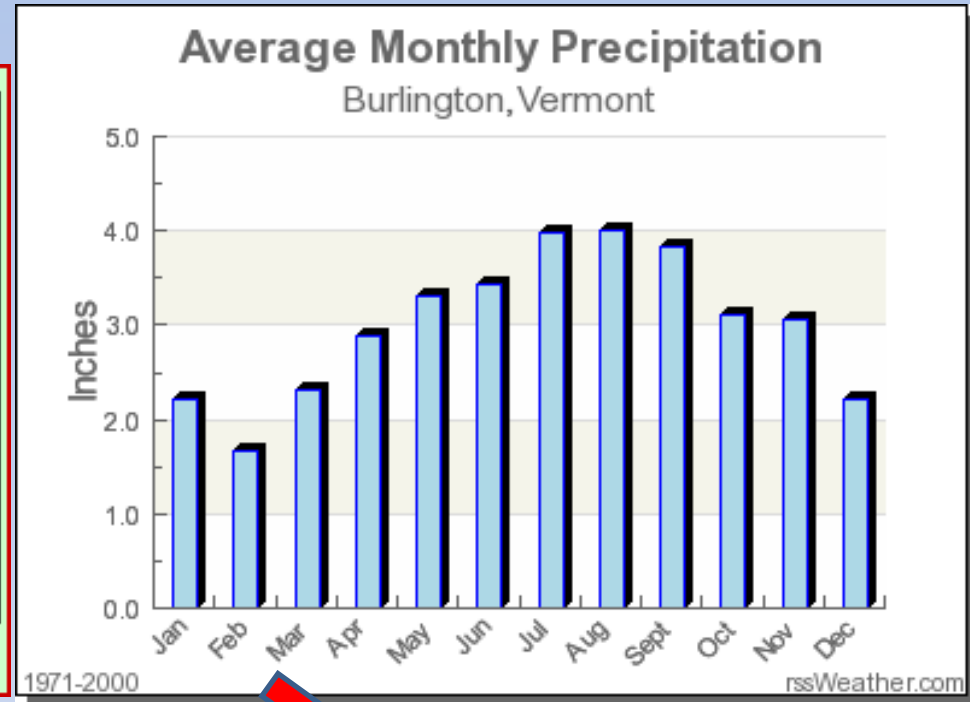
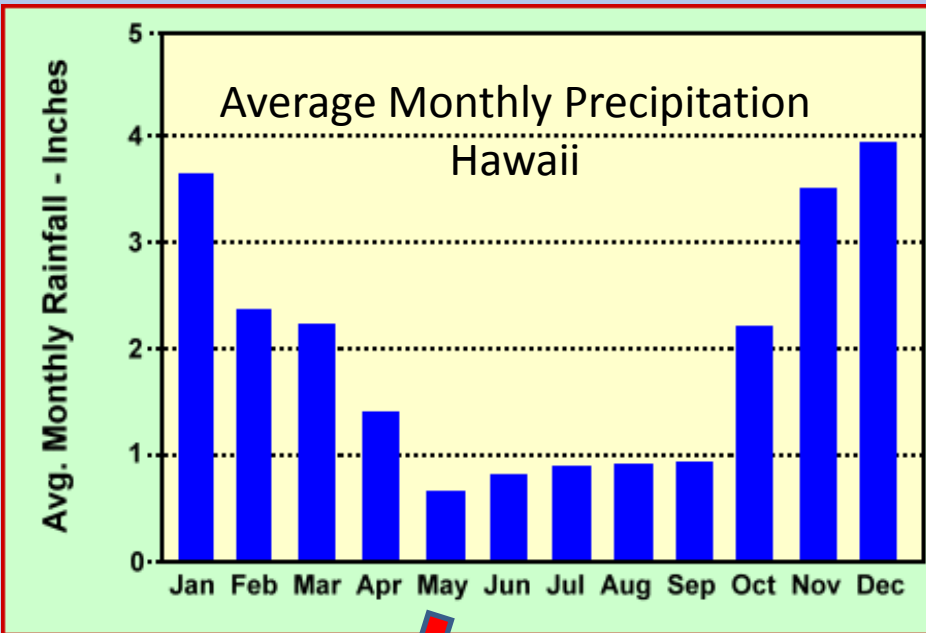
2010-554 © INKCINCT Cartoons www.inkcinct.com.au



READING THE RAIN GAUGE LAST WEEKEND

INKCINCT

Why measure precipitation?



<http://www.disco>

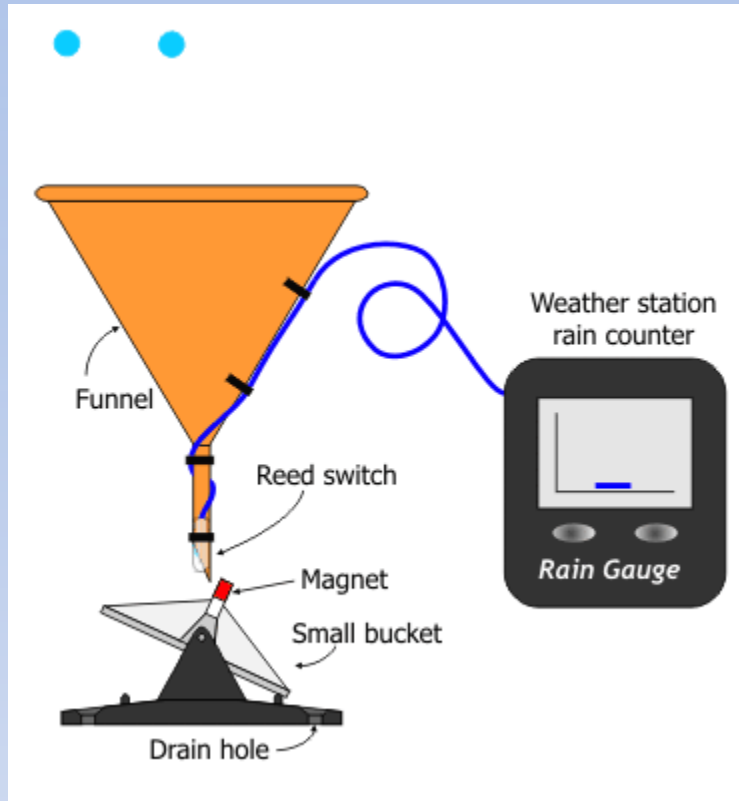
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Types of Rain Gauges



Each time the bucket fills with rain, the see-saw tips. The total rainfall is measured by counting how many times the bucket tips.

Tipping Bucket Rain Gauge



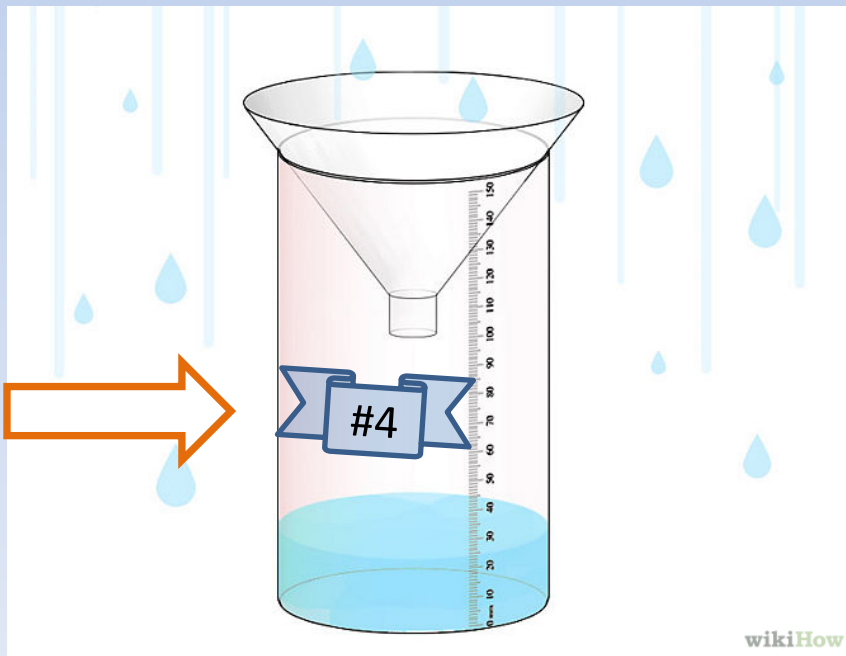
Standard (Manual) Rain Gauge

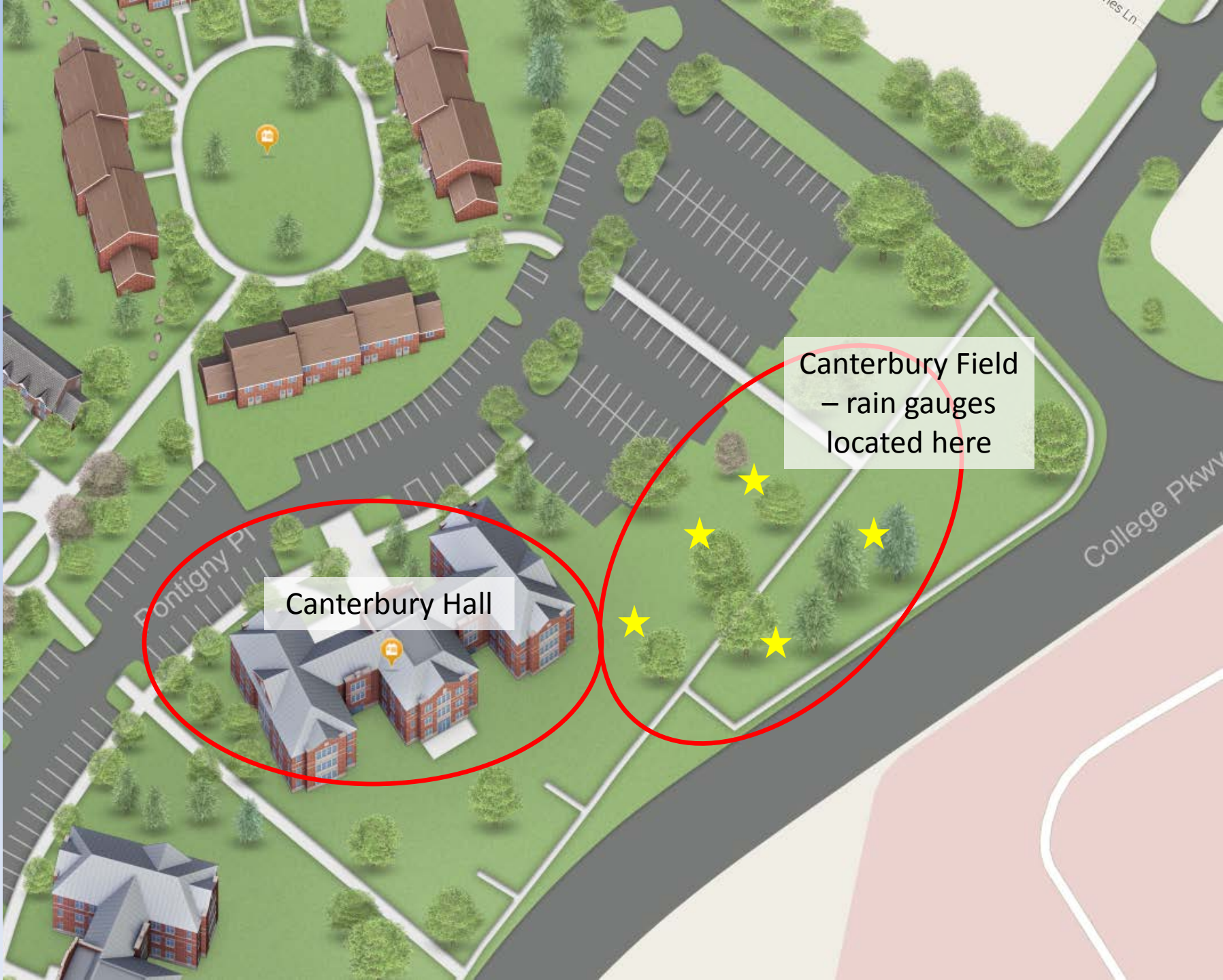
Your Team Rain Gauges

Rain Gauge #	Team 1	Team 2
1	Crayfish	Dragonfly
2	Lake Trout	Caddisfly
3	Stonefly	June Beetle
4	Snapping Turtle	Hellgrammite
5	Painted Turtle	Mayfly

Data Collection Schedule:

	AM	PM
Monday	-	Team 1
Tuesday	Team 1	Team 2
Wednesday	Team 2	Team 1
Thursday	Team 1	Team 2
Friday	Team 2	-





Canterbury Hall

Canterbury Field
– rain gauges
located here



Questions?

