

# Title

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Teaching content area: Biology

School: Waukee

Extern host site: Des Moines Parks & Rec



## **Part I: Overview of Business**

Des Moines Parks and Recreation oversees the 78 public parks in Des Moines. They have a budget of millions and a staff which is likely outnumbered by volunteers

## **Part II: Job Specifics**

My job was to go to every single park in Des Moines and enter GPS coordinates and give a physical assessment of every single asset in the park system. (>1,400 assets).

## **Part III: Introduce to the problem**

In the past, park equipment was replaced primarily by word of mouth. When somebody noticed something wrong, something got done. This is an oversimplification, but it was clear that there was a better way of monitoring millions of dollars worth of assets.

Capital assets don't really seem all that relevant to 16 year olds, so we will change the scenario a little bit

## **Part IV: Background**

Most students know how to use GPS to find the nearest pizza place but they probably don't know that it can save parks a bunch of money and help doctors solve a mystery.

I will introduce a medical mystery that involve a student drinking water from a local lake. It unfold as a huge mystery and the students will use GPS and other data to solve the mystery! The skills will unfold as the students look for more information.

## **Part V: Business Solution**

DMPR is using a software spreadsheet to record the GPS data, the park conditions and a record of depreciation which will really help them get a broad overview of capital assets.

## **Part VII: Student Solutions**

Students will use data GPS data collected and demonstrate how changes in water temperatures have affected the local environment.