

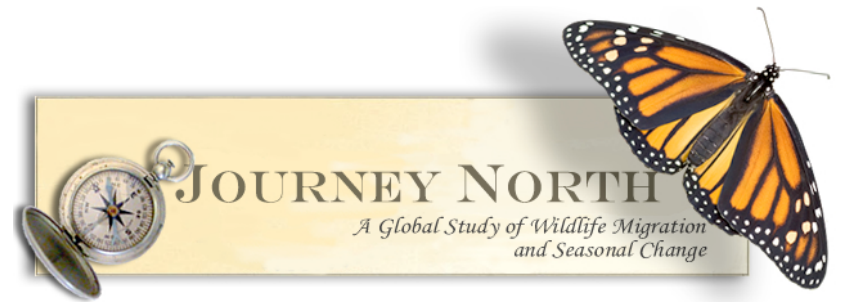
## Try the Microclimate Challenge

Your challenge is to plant bulbs in contrasting conditions to explore how microclimate affects when tulips emerge and bloom. What do you think will happen? Share your results with Journey North!

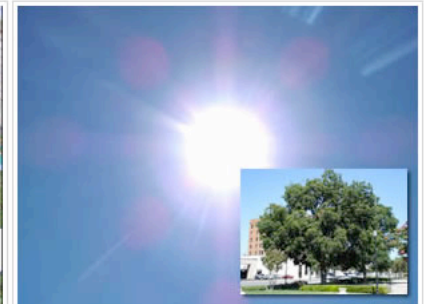


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## Microclimate: Exploring Conditions That Affect Plant Growth



by Mary Hosier and Rita Welch

## Site Matters

Think about your school yard. Planting tulips in different places will affect bloom times. How does where you plant your bulbs affect when your tulips emerge and bloom? Which areas do you think tulips would bloom early, where will they bloom late in the spring?



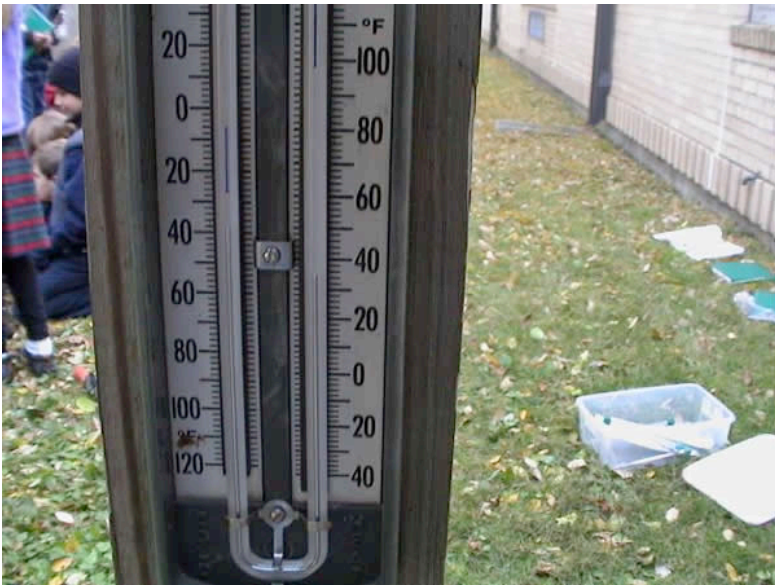
## Sunny or Shady

How much sunlight does a tulip need to bloom? How much is too much, too little, and how much is just enough? Where would you plant to find out?



## Hot or Cold

There are places around your school yard that have different temperatures. Where could you plant bulbs to explore how warm and cool conditions affect when tulips bloom?



## Holding it All Together

North or South Where could you plant tulip bulbs to find out about affects of northern or southern exposures?





### **Wet or Dry**

Where would you find rich, dark soil in your school yard? Where would you find other kinds of soil? How do you think soil moisture will affect bloom time?



### **Windy or Calm**

How do you think wind conditions affect bloom times?

