



# Parent Resources for Sunset...

Goals of this lesson:

- Make a Compass Rose to review East and North
- Observe the darkening sky as the Sun is setting
- Face the West and observe the setting Sun
- Learn that some animals and plants that are nocturnal, and are active at night.

For additional information, copy and paste these links into your browser:

Sunset:

<https://clever.discoveryeducation.com/learn/player/a6070600-9833-4d11-afb3-3616e00812a9>

A closer look at bats:

<https://clever.discoveryeducation.com/learn/player/811b643f-1e0c-4635-b08d-c2e32a75fb67>

How bats “see” at night:

<https://clever.discoveryeducation.com/learn/player/685aa434-1aa2-4960-bef5-ac965ebf5c9e>

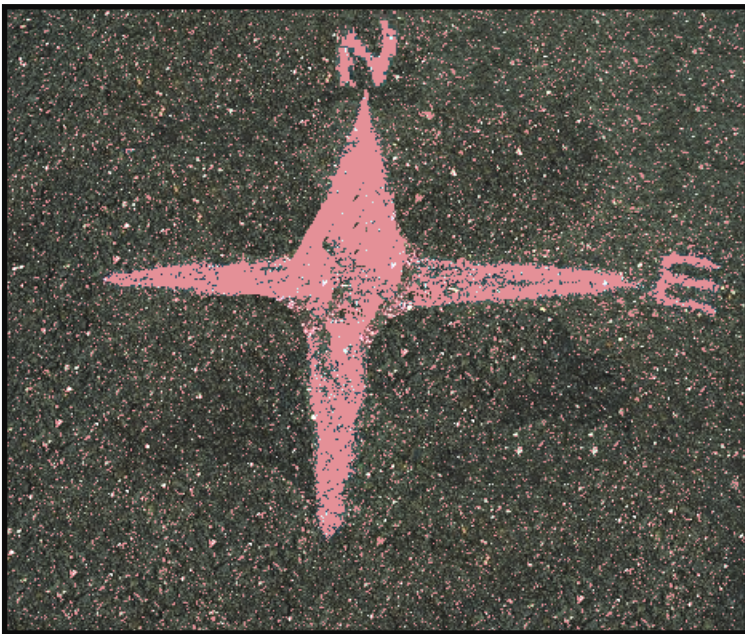
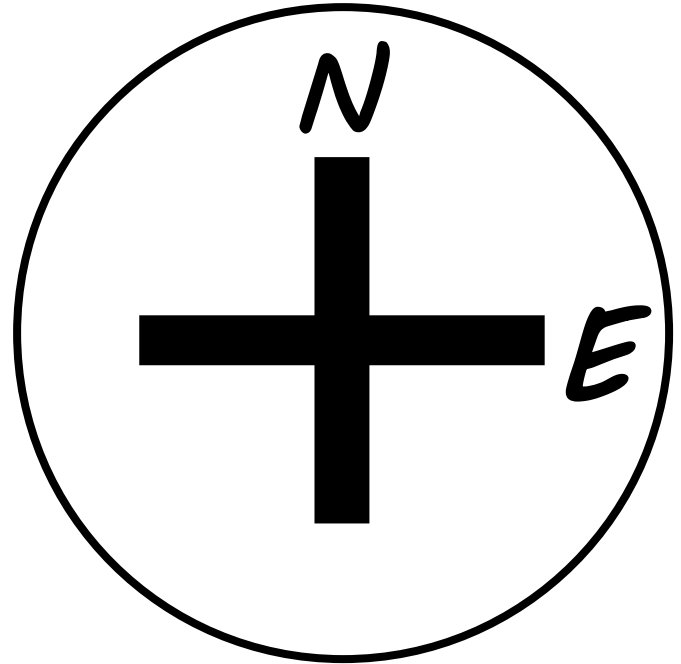
How owls hunt in darkness:

<https://clever.discoveryeducation.com/learn/player/83ed75e8-64de-40bd-8da0-e2dee9cede29>

# Make Your Own Compass Rose

A Compass Rose is a drawing that is used on maps to show directions. A simple Compass Rose starts out looking like a plus sign (+) and the directions are marked with letters. Here's a simple Compass Rose with N for North and E for East.

We will be adding the other two directions later.



This Compass Rose was drawn on a driveway with chalk.

If you have chalk, draw a simple Compass Rose like this on your sidewalk or driveway. Remember that the point labeled E is facing the direction where the Sun rises in the morning.

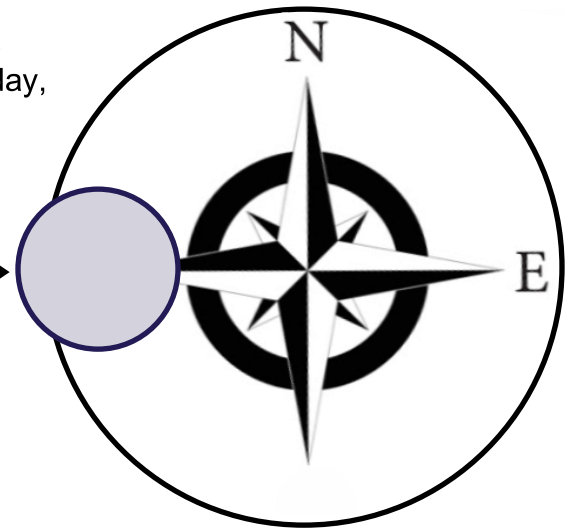
If you have markers or crayons, you can draw your Compass Rose on a piece of cardboard (or even paper). Just remember that when you take it outside, your E must point toward the East, which is the direction where the Sun rises every morning.

# Sunset

Let's start with a review. Do you remember the direction East? When you face the East, you are facing the direction where the Sun rises, or comes up, every morning. When you go outside tonight, right around 8:00, start by facing East. Use the Compass Rose that you made to remind you of that direction. Do you remember where the direction North is? That's a one-quarter ( $\frac{1}{4}$ ) turn counter-clockwise from East. Turn and face North. Does that match the Compass Rose that you made? Look up into the sky. You can't see the stars yet because the air around Earth (our atmosphere) blocks our view of the stars while the Sun is lighting up the sky. We have to wait until it's dark to see the stars.

## FACING WEST

Turn your body another one-quarter turn counter-clockwise. You should see that the sky is brighter than in any other direction. That's because the Sun sets in that direction, and it is called West. Every day, the Sun rises in the East and sets in the West.



This is a Compass Rose. It is used on maps to show directions. E is for East. N is for North.  
**Write a W in the circle to show which way is West.**  
 If you made your own Compass Rose, add the W to that, too.



Some animals come out after sunset. Animals that come out at night are called **NOCTURNAL**.

Bats are nocturnal animals. They have very sensitive hearing which keeps them from bumping into things while they are flying in the dark. Bats eat a lot of bugs. Nighttime is when many bugs come out. Those insects are nocturnal, too.

**Color the drawing of a flying bat. Bats' wings are brown or black, but some have grey, red, white or orange fur on their bodies.**

There are even some plants, like the Evening Primrose, that bloom at night. Their flowers open up when the Sun is going down.



**Color this drawing of Evening Primrose. It has a yellow flower with green leaves.**