



Depending on what gets in front of what, we have different names for the eclipse. When the Moon passes between us and the Sun, we call it a solar eclipse. It is the Sun that is being "eclipsed" (meaning hidden or blocked from sight).

When Earth passes right between the Sun and the Moon, we get a lunar eclipse



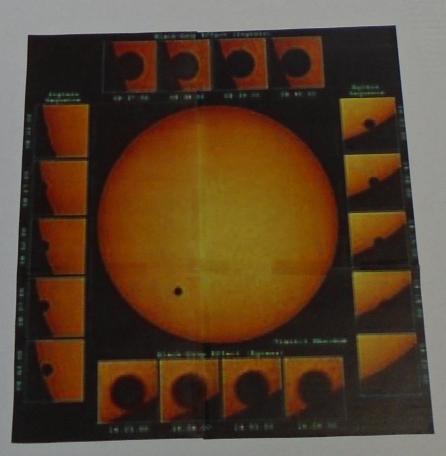
An eclipse happens when one object in space gets right in front of another object in space.

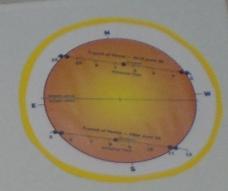
> To form an eclipse, the two objects and the observer must be located along a straight line.

Seeing that happen is awesome! And it is a chance to learn more about one or both of the objects.

There is one other very rare eclipse that we can also see happening before our very SHIELDED eyes. That one is

called a "Venus transit." Venus orbits closer to the Sun than Earth does. Sometimes Venus passes between Earth and the Sun. When things are lined up just right, we can see Venus as a small black dot moving across the face of the Sun.





## How often can we see a Venus transit?

## Why are Venus transits so unpredictable?

At first, you might think the "subadde" of Yesus treasits sounds prefundors. But there is a pottern

## So why don't we see a Venus trensit more often? Several reasons

- So why don't we set a Venus treasest more often? Several reasons.

  1 Since Venus orbits closer to the out there Earth does, if has a charser dictions to go to make one Top." For every 8 loop Earth realise, venus makes should 3 loop. That nears Venus passess us given to make should every 8 years, or exce should every 1.8 years.

  2 But we don't see Venus limited up in frant of the sen every 1.6 years because Venus yearsh is trivial a but frant Earth 2 orbit. See when we would expect to see Venus prossing us up, or is either does or below the Sen, so we don't see it We see or in only if a just that there is the artist. It happens to be crossing Sarrh, 5 orbit.

  3 Also, notther orbit is exactly circular, which throse off the rhythen of the donce just a bit more.

