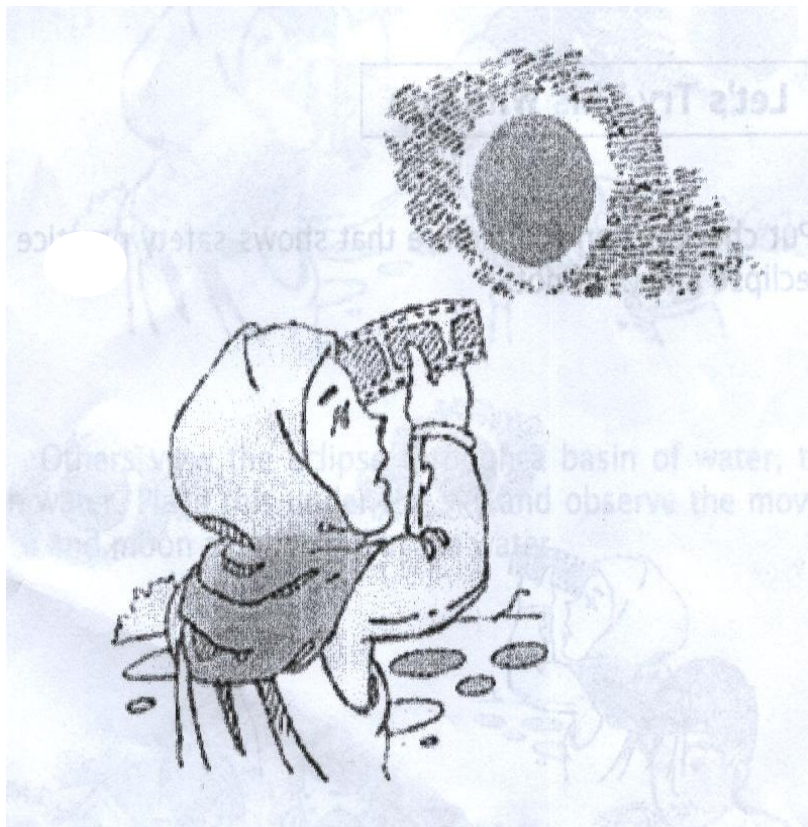


Science and Health

SAFETY MEASURES DURING SOLAR ECLIPSE



Australian Government

AusAID



To the Learner

Scientists who study the sun, moon and earth can predict when a total solar eclipse will occur. These scientists trace the exact place where the eclipse can be seen. They use protective covers for their eyes when viewing an eclipse because some light rays are harmful and can do damage to the eyes.



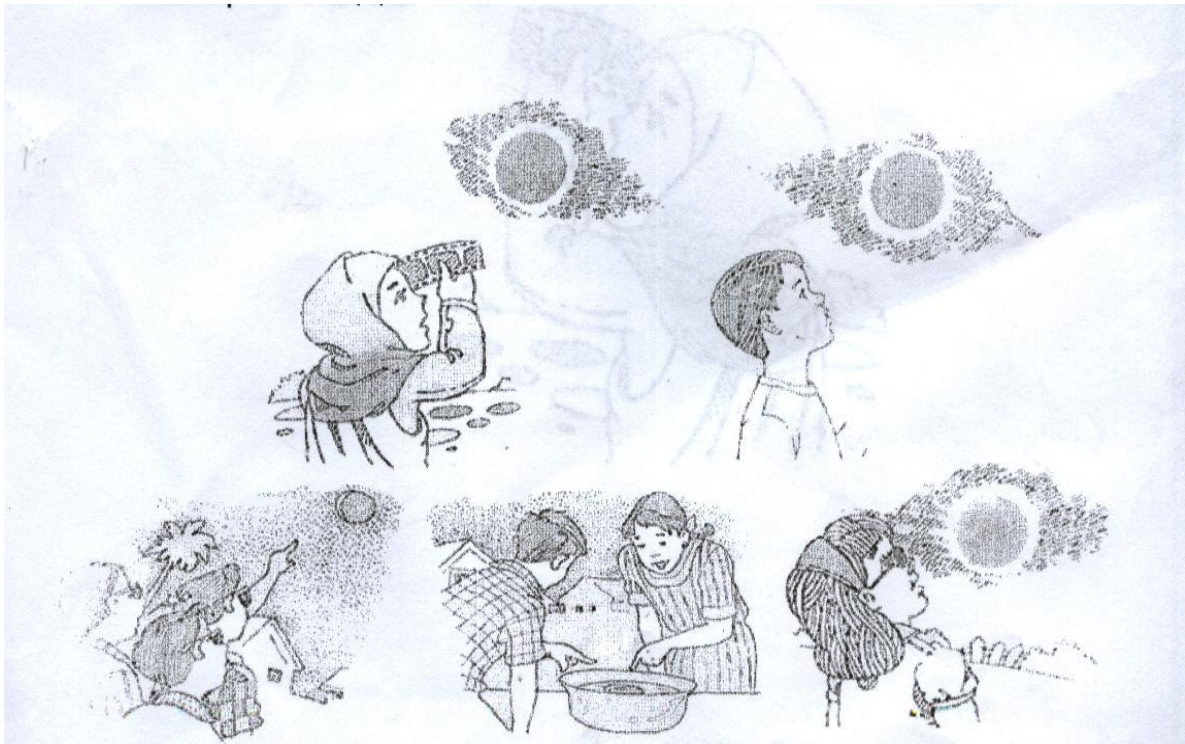
Let's Learn This

Practice safety measures during solar eclipse.



Let's Try This

Put check (✓) on the picture that shows safety practice in viewing solar eclipse and (x) if not.





Let's Study This

When news of a total solar eclipse is announced, people in the place where the eclipse will be seen prepare for it.

A total eclipse of the moon lasts for about $1\frac{3}{4}$ hours. A total eclipse of the sun never lasts for more than $7\frac{1}{2}$ minutes. There are always at least two solar eclipses in a year, and there may be as many as five. But most of them are partial eclipses.

Some people use dark glasses to view the eclipse, or negative film.



Others view the eclipse through a basin of water; they half fill it with water. Place this under the sky and observe the movement of the earth and moon as reflected in the water.





Let's Do This

- A. Answer Yes on the blank provided before the number if the statement is correct, and No if not.

- _____ 1. Is it safe to view Solar Eclipse without using an eye protector?
- _____ 2. Solar Eclipse happens every year.
- _____ 3. There are some safety ways in viewing Solar Eclipse.
- _____ 4. Solar Eclipse can be seen also during night time.
- _____ 5. We can use dark glasses in viewing Solar Eclipse.

- B. Read the following sentences and box the number that states safety measures in viewing Solar Eclipse.

1. Use dark glasses to view or watch Solar Eclipse.
2. Look directly to the Eclipse.
3. Use clear reading glasses.
4. Basin with water can also be use in viewing.
5. Negative film also can be use.



Let's Do More

You heard from the news that there will be a solar eclipse. You wanted to see the solar eclipse, what will you do? Draw and write a caption below.





Let's Remember This

There are some safety measures in viewing Solar Eclipse.

1. Use dark glasses.
2. Use negative film.
3. Use basin with water.



Let's Test Ourselves

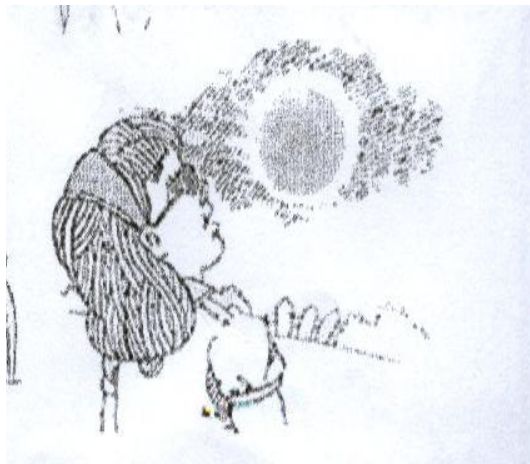
Identify the safety measures that are shown in the picture, write it on the blank.



1. _____



2. _____



3. _____



Science Fact File

Eye Safety

Permanent eye damage can result from looking at the disk of the Sun directly, or through a camera viewfinder, or with binoculars or a telescope even when only a thin crescent of the Sun or Baily's Beads remain.

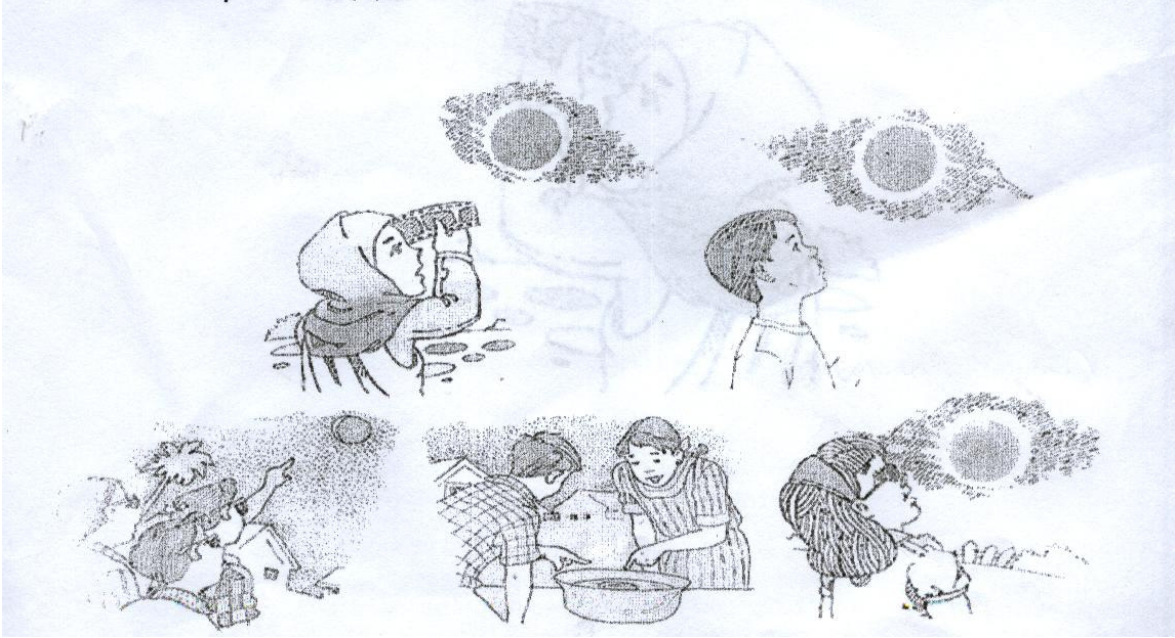
Eye Suicide

Standard or Polaroid sunglasses are not solar filters. They may afford some eye relief if you are outside on a bright day, but you would never think of using them to stare at the Sun. So you cannot see sunglasses, even crossed Polaroid's, to stare at the Sun during the partial phases of an eclipse. They provide little or no eye protection for this purpose.



Answer Key

Let's Try This



Let's Do This

A. 1. NO 2. NO 3. YES 4. NO 5. YES

B. 2 3.

Let's Test Ourselves

1. use film
2. use basin
3. use dark glasses