

4/4/2024

Dear Student and Guardian,

As you may know, Monday, April 8th, we will be experiencing a total solar eclipse and will have an e-learning day. I am sending home this packet for your student to complete as part of their attendance and work completion scores. They will be rewarded with 30 of our PBIS tickets for turning in a completed packet to me the following day.

I will be available from 8am-10am via Google Meets through our Google Classroom (your student knows their individual log in). This is not a requirement as we are not sending home Chromebooks, but if they are able to log in and need assistance with their work, that is the best way to reach me. They can also email me until 11am for an immediate response. Emails after 11am, will most likely be responded to the following day.

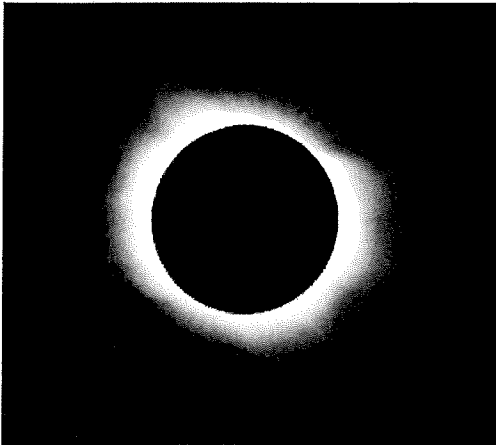
I hope you enjoy the Path of Totality and have a safe and happy e-learning day!

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Find the Main Idea: Solar Eclipse



The moon blocks the sun during a solar eclipse in August 2008

A solar eclipse occurs when the moon comes between the Earth and the sun. During an eclipse, the moon blocks all or part of the sun.

A solar eclipse would happen every month if the orbits of the Earth and the moon were perfectly circular and the moon orbited on the same plane as the Earth's orbit around the sun. However, the Earth's orbit and the moon's orbit are not perfect circles. They are both oval shaped, or elliptical. In addition, the moon's orbit is not on the same plane as the Earth's, but is angled at about 5 degrees. These orbit characteristics provide fewer opportunities for the moon to be in the correct position to block the sun. Rather than happening every month, some type of solar eclipse happens only two to five times a year.

A total solar eclipse for any give location is even rarer. In a total eclipse, the moon completely blocks the sun, leaving only a rim of light called "the ring of fire." A total eclipse occurs somewhere on Earth about every 18 months. Any one location on Earth, however, will only be able to view a total eclipse about every 360 to 410 years.

Find the Main Idea

Write the main idea of the passage in your own words.

Write two supporting ideas for the main idea.

1. _____

2. _____

Name: _____ Date: _____

Eclipse Word Search

DIRECTIONS: Find and circle the vocabulary words in the grid. Look for them in all directions including backwards and diagonally.

U	P	L	A	H	P	J	B	S	F	S	H	A	D	O	W	X	R	G	X	M
E	E	X	Y	S	L	T	O	V	O	Y	Y	R	A	A	L	I	A	J	H	O
D	Y	T	W	O	K	A	D	Y	O	L	J	S	R	K	Z	R	N	A	O	V
Q	E	I	Q	R	P	K	L	O	F	U	A	W	K	D	M	J	U	F	L	D
I	P	B	T	E	J	A	U	K	A	P	G	R	N	L	T	U	L	A	C	S
X	R	R	Y	V	E	A	R	Z	R	E	D	I	E	T	D	W	P	J	G	G
N	O	O	M	R	J	C	I	W	B	N	M	J	S	X	M	Y	C	Q	N	Q
R	T	U	P	E	M	N	S	W	M	U	C	S	S	O	C	D	X	R	O	Q
H	E	W	R	S	A	R	O	S	U	M	Q	R	J	O	F	J	L	X	A	W
I	C	S	E	B	Y	A	P	S	T	B	W	U	E	K	S	K	Y	F	C	O
U	T	N	D	O	T	Y	S	J	N	R	J	W	P	J	E	H	U	E	P	A
Y	I	K	I	A	E	C	M	Y	A	A	L	A	I	T	R	A	P	U	R	N
I	O	D	C	X	N	P	O	S	B	H	A	T	X	D	O	N	G	B	K	C
H	N	N	T	O	A	S	W	R	F	J	P	K	L	B	U	N	M	A	T	G
Q	H	V	A	K	L	H	W	S	O	P	O	N	S	S	I	U	C	O	X	A
V	W	M	B	B	P	B	U	N	F	N	E	H	I	N	X	K	T	G	B	N
Y	I	Y	L	S	S	G	N	B	A	F	A	V	I	I	F	A	U	P	X	N
J	N	D	E	L	B	O	O	E	S	P	I	L	C	E	L	Y	C	P	W	U
C	A	W	I	Z	B	Y	N	J	N	L	N	K	C	Z	F	T	F	G	A	L
H	A	R	M	F	U	L	R	A	Y	S	G	C	H	T	R	A	E	C	R	A
Y	B	D	G	Y	V	N	J	N	R	Z	T	R	S	L	U	Q	U	Q	S	R

ANNULAR
ANTUMBRA
BLOCK
CORONA
DARKNESS
EARTH
ECLIPSE
EYE PROTECTION

HARMFUL RAYS
LINING UP
LUNAR
MOON
OBSERVER
ORBIT
PARTIAL
PENUMBRA

PLANET
PREDICTABLE
SAROS
SHADOW
SOLAR
SUN
TOTAL
UMBRA

Lesson 1 New Skills Practice (continued)

6. What is the value of 9^3 ?

$$9 \times 9 \times 9 =$$

7. What is the value of 7^4 ?

$$7 \times 7 \times 7 \times 7 =$$

8. What is the value of 6^2 ?

$$6 \times 6 =$$

9. $24 + 32 - 6(4 \cdot 2)$

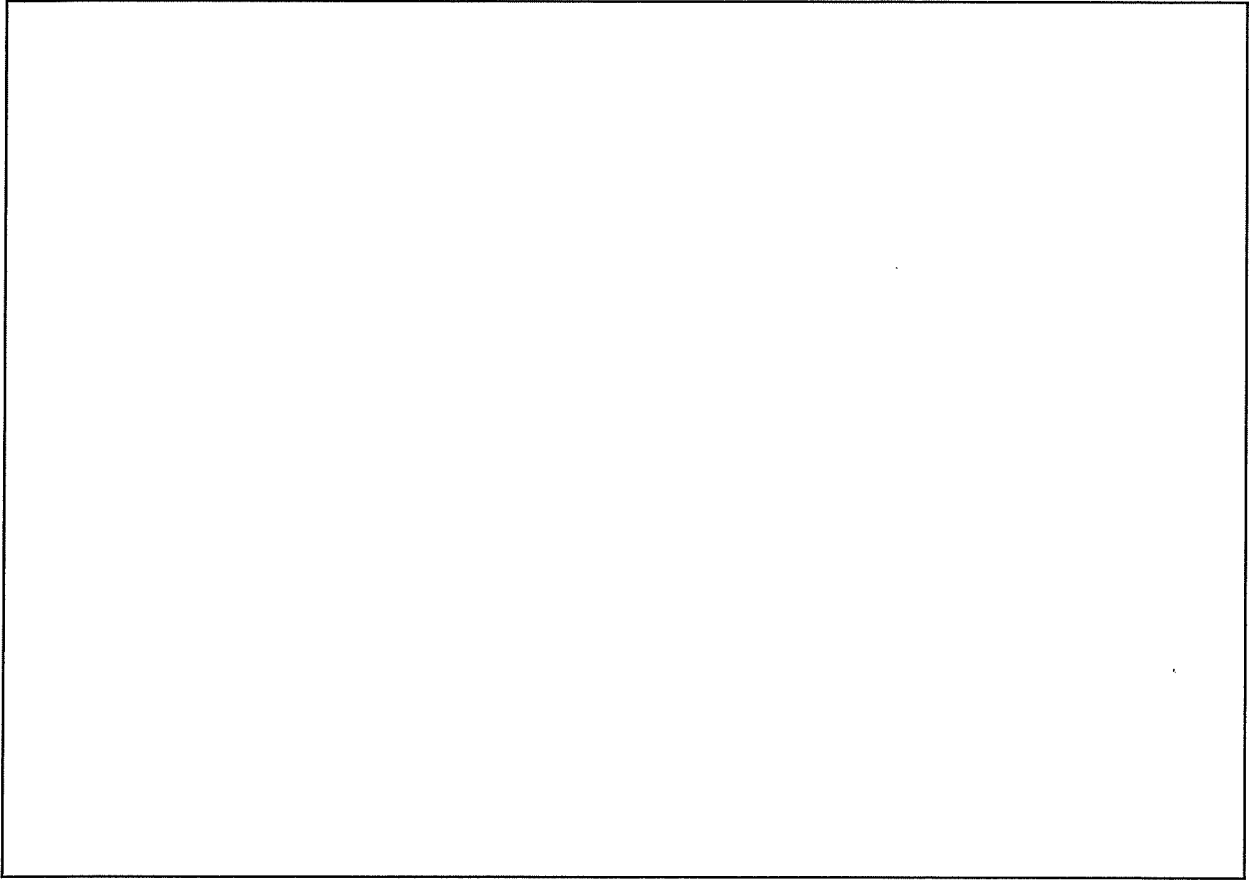
10. $3(8 - 3) + 4(17 + 8)$

11. $16 - (10 - 4) + 2 \cdot 8 \cdot 5$

12. $2.7(8.6 - 3) + 5.4(3) - 7.6$

Name: _____

Draw an eclipse:



What happens if you look at an eclipse without appropriate eye protection?
