

SPARK !

ACTIVITY RESOURCES FOR SENIORS

COMMUNITY OUTREACH PROJECT

VOL. II SUN, MOON, STARS





SPARK!

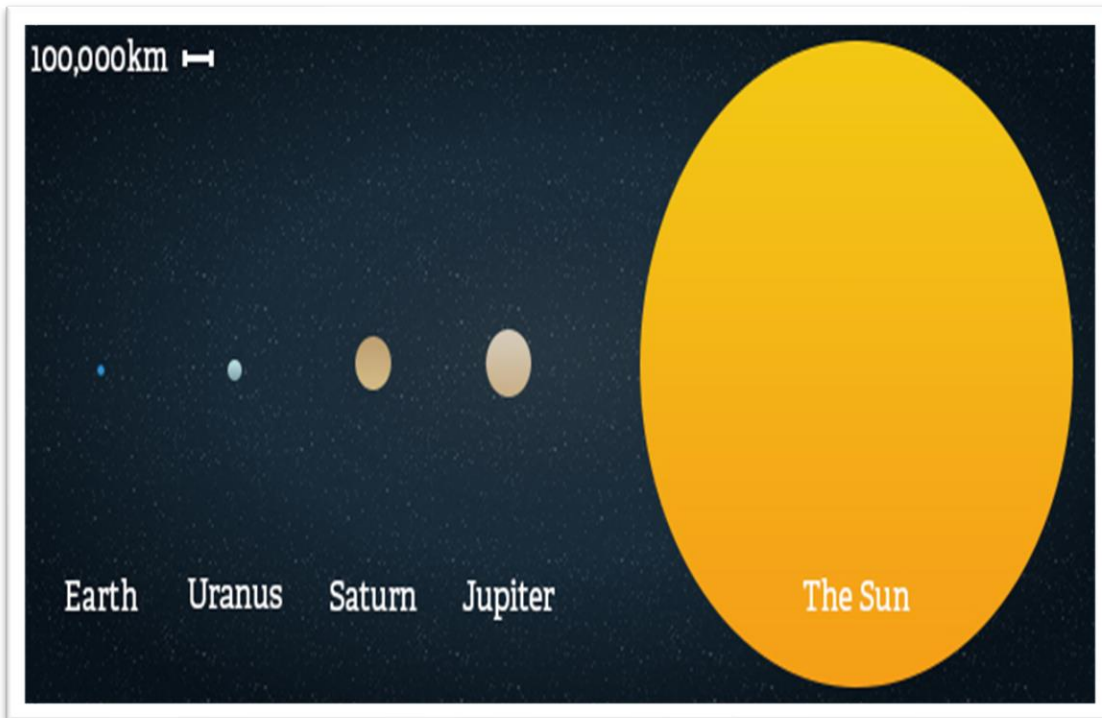
ACTIVITY RESOURCES FOR SENIORS

Welcome!

We are glad “to be together”.
Our goal is to provide a weekly
spark of *activity*
for you to enjoy.

A playful mixture of fun facts,
poems, games, stories, coloring
page, jokes and MORE!

Sun Facts



- The Sun accounts for 99.86% of the mass in the solar system. It has a mass of around 330,000 times that of Earth. It is three quarters hydrogen and most of its remaining mass is helium.
- Over one million Earth's could fit inside the Sun. If you were to fill a hollow Sun with spherical Earths, somewhere around 960,000 would fit inside. However, if you squashed those Earths to ensure there was no wasted space then you could fit 1,300,000 Earths inside the Sun. The surface area of the Sun is 11,990 times that of Earth.
- The Sun rotates in the opposite direction to Earth with the Sun rotating from west to east instead of east to west like Earth.
- The Sun rotates more quickly at its equator than it does close to its poles. This is known as differential rotation.
- The atmosphere of the Sun is composed of three layers: the photosphere, the chromosphere, and the corona.
- The Sun is almost a perfect sphere. Considering the sheer size of the Sun, there is only a 10 km difference in its polar and equatorial diameters – this makes it the closest thing to a perfect sphere observed in nature.

Source: <https://theplanets.org/the-sun/>

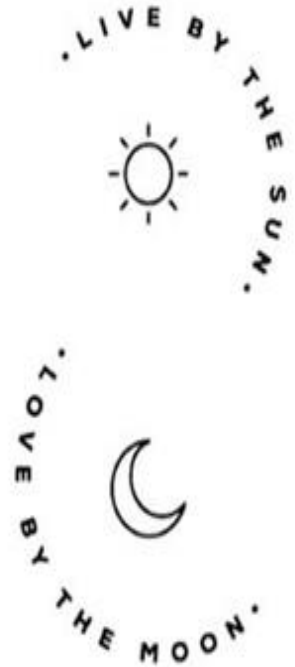
Moon Stories from Around the World

Storytelling is a human tradition

There are as many stories about the shapes on the face of the Moon as there are cultures who have observed them. They often relate moral tales or creation stories.

- Do you have a Moon story that was told to you?
- Why do so many cultures have Moon stories?
- What do you see in the Moon?

Source:
<https://nightsky.jpl.nasa.gov/docs/MoonStoriesASP2019.pdf>



Facts About Stars

- There are 9,096 stars visible to the naked eye in the entire sky. To see more, you have to use a telescope to reveal stars fainter than your eyes can see.
- You can only see about 2,000 stars on a very dark night with the naked eye from any given place on Earth. To do this, you need to observe on a moonless night and be far away from sources of light pollution.
- Astronomers estimate there are a trillion stars in the Milky Way Galaxy.
- Stars are born in batches in their stellar nurseries. Over time, they travel through the Milky Way, far from their crèches.
- Most stars travel the galaxy with companions or in clusters. But not all stars do that; our Sun, for example, moves through the galaxy without a stellar companion.
- The more massive a star, the shorter its lifespan. A very massive star may live only tens of millions of years, while a cool dwarf will shine on for billions of years. At an age of about 4.5 billion years, our Sun is considered middle-aged.
- The oldest accurately dated star chart appeared in ancient Egyptian astronomy in 1534 BC.
- In 185 AD Chinese astronomers were the first to record a supernova, this is now classified as SN 185.

• Source: <https://space-facts.com/stars/>



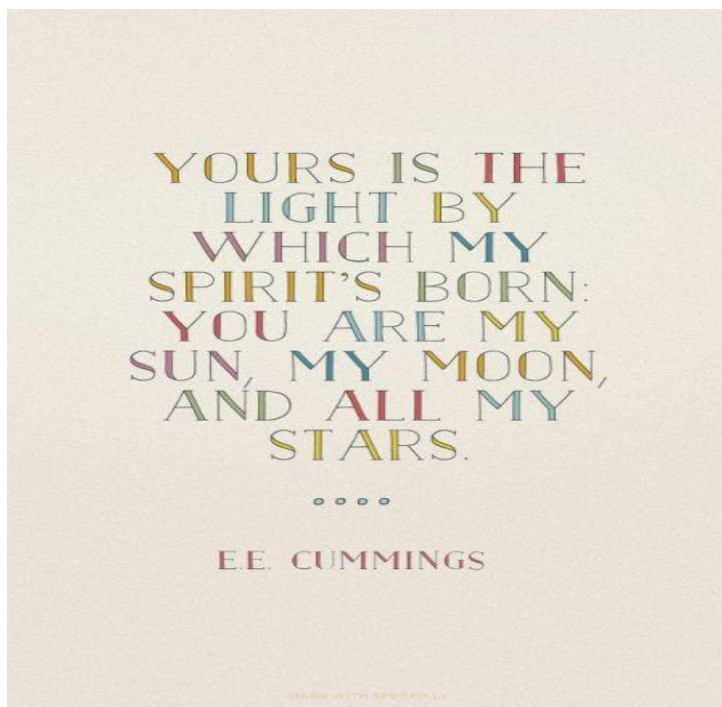
A photograph of a harbor scene at sunset. The sky is a mix of orange, yellow, and blue. The water reflects the warm colors of the sunset. Several boats are docked along the quay, including a prominent blue boat in the foreground. In the background, there are multi-story buildings with lit windows, and a red sign is visible on one of them. The overall atmosphere is peaceful and picturesque.

*Never go too long
without watching a
sunset.*

- ATTICUS



Sun, Moon, Stars Literature



The Moon Game



I'm the moon and I play a game.
I don't always look the same.

Sometimes I'm round,
A silver sphere.

Sometimes just half of me
Seems to be here.

Sometimes I'm a crescent,
Shaped like a smile.

Sometimes I surprise you
And hide for awhile.

Look up in the sky
For my friendly light.

What shape will I have
When you see me tonight?

- Author unknown



And
you were just
like the moon,
so lonely, so
full of imper-
fections. but
just like the
moon, you shined
in times of dar-
kness.



I AM
GRATE-
FUL
FOR

Earth, sun, & moon

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

Rocket	Maria	Phases	Mass
Force	Axis	Orbit	Escape velocity
Velocity	Meteoroids	Telescope	Spring tide
Lunar eclipse	Umbra	Inertia	Gravity
Equinox	Revolution	Space probe	Space shuttle
Satellite	Or tubal velocity	Thrust	Craters
Neap tide	Solar eclipse	Penumbra	Eclipse
Weight	Solstice	Rotation	astromony

Boggle

How many words can you make using the letters below?

E	B	S	L
T	H	A	W
G	Y	N	I
P	K	R	F

The players form words from sequentially adjacent cubes, which means letters must be connected in a Vertical, horizontal or diagonal format and must be very close.

The words constructed separately may be plural or singular and must be at least 3 letters long. In addition, the players are not allowed to use the same letter more once per word.

This image shows a blank sheet of white paper with six horizontal black lines spaced evenly apart, typical of primary-ruled notebook paper. The lines are parallel and extend across the width of the page.



