# PDF FREE ASTRONOMY 101 FROM THE SUN AND MOON TO WORMHOLES AND WARP DRIVE KEY THEORIES DISCOVERIES AND FACTS ABOUT THE UNIVERSE (READ ONLY)

THE CHANG E & MISSION S SAMPLE WHICH MIGHT HOLD CLUES ABOUT THE ORIGINS OF THE MOON AND EARTH IS THE LATEST ACHIEVEMENT OF CHINA S LUNAR EXPLORATION PROGRAM BY KATRINA MILLER KATRINA THE CHANG E 6 PROBE IS EXPECTED TO HAVE RETURNED TO EARTH WITH UP TO 2 KILOGRAMS OF MOON DUST AND ROCKS FROM THE LUNAR FAR SIDE WHICH WILL BE ANALYZED BY RESEARCHERS IN CHINA BEFORE BEING THE MOON IS EARTH S ONLY PERMANENT NATURAL SATELLITE AND IT S THE FIFTH LARGEST SATELLITE IN OUR SOLAR SYSTEM THE MOON IS EARTH S ONLY NATURAL SATELLITE IT ORBITS AT AN AVERAGE DISTANCE OF 384 400 KM 238 900 MI ABOUT 30 TIMES THE DIAMETER OF EARTH MOON FACTS THE BRIGHTEST AND LARGEST OBJECT IN OUR NIGHT SKY THE MOON MAKES EARTH A MORE LIVABLE PLANET BY MODERATING OUR HOME PLANET S WOBBLE ON ITS AXIS LEADING TO A RELATIVELY STABLE CLIMATE IT ALSO CAUSES TIDES CREATING A RHYTHM THAT HAS GUIDED HUMANS FOR THOUSANDS OF YEARS 10 THINGS EARTH HAS JUST ONE MOON A ROCKY CRATERED PLACE ROUGHLY A QUARTER THE SIZE OF EARTH AND AN AVERAGE OF 238 855 MILES AWAY THE MOON CAN BE SEEN WITH THE NAKED EYE MOST NIGHTS AS IT TRACES ITS 27 DAY ORBIT AROUND OUR PLANET THE BEST TIMES TO SEE A DAYTIME MOON ARE PERHAPS DURING THE FIRST AND LAST QUARTER PHASES WHEN THE MOON IS HIGH ENOUGH ABOVE THE HORIZON AND AT ABOUT 90 DEGREES FROM THE SUN IN THE SKY THIS HELPS MAKE THE SUN S REFLECTED LIGHT BRIGHT ENOUGH TO SEE AS IT REFLECTS OFF OF THE MOON EARTH S MOON IS THE BRIGHTEST AND LARGEST OBJECT IN OUR NIGHT SKY THE MOON MAKES EARTH A MORE LIVABLE PLANET BY MODERATING OUR HOME PLANET S WOBBLE ON ITS AXIS LEADING TO A RELATIVELY STABLE CLIMATE IT ALSO CAUSES TIDES CREATING A RHYTHM THAT HAS GUIDED HUMANS FOR THOUSANDS OF YEARS CHINA SPACE PROFE RETURNS WITH RARE MOON ROCKS CHINA S I LINAR PROFE HAS RETURNED TO FARTH WITH THE FIRST EVER SAMPLES FROM THE MOON S UNEXPLORED FAR SIDE THE CHANG E 6 LANDED IN THE INNER MOON EARTH S SOLE NATURAL SATELLITE AND NEAREST CELESTIAL BODY KNOWN SINCE PREHISTORIC TIMES IT IS THE BRIGHTEST OBJECT IN THE SKY AFTER THE SUN ITS NAME IN ENGLISH LIKE THAT OF EARTH IS OF GERMANIC AND OLD ENGLISH DERIVATION THE MOON MAKES A COMPLETE ORBIT AROUND EARTH IN 27 EARTH DAYS AND ROTATES OR SPINS AT THAT SAME RATE OR IN THAT SAME AMOUNT OF TIME BECAUSE EARTH IS MOVING AS WELL ROTATING ON ITS AXIS AS IT ORBITS THE SUN FROM OUR PERSPECTIVE THE MOON APPEARS TO ORBIT US EVERY 29 DAYS IMAGINE YOU RE IN A SPACESHIP TRAVELING AWAY FROM EARTH AS YOU SAIL ONWARD YOU SEE OUR PLANET AND ITS MOON LOCKED TOGETHER IN THEIR ENDLESS CIRCLING GRAVITATIONAL EMBRACE WITH SOME OF HUMANITY S MOST ADVANCED TECHNOLOGIES FUTURE ASTRONAUTS WILL STAY LONGER ON THE SURFACE OF THE MOON EXPLORE MORE OF THE MOON THAN EVER IMAGINED AND BUILD A SUSTAINABLE PRESENCE A NEW CLASS OF POWER SYSTEMS WILL SUPPORT FUTURE HUMAN OUTPOSTS CHINA RETURNS THE FIRST EVER SAMPLE OF THE MOON S FAR SIDE THE FAR SIDE OF THE MOON LOOKS VERY DIFFERENT FROM THE NEAR SIDE AND WITH THE CHANGE & MISSION SCIENTISTS ARE HOPING TO LEARN WHY CREDIT NASA BILL DUNFORD THE MOON EARTH S NEAREST CELESTIAL NEIGHBOR HAS FASCINATED HUMANITY FOR AGES WITH ITS EVER CHANGING PHASES EACH MONTH THE MOON TRANSITIONS THROUGH A SERIES OF NASA S INTERACTIVE MAP FOR OBSERVING THE MOON EACH DAY OF THE YEAR LEARN HOW EARTH S MOON FORMED HOW ITS ORBIT AFFECTS EARTH S TIDES WHY SOLAR AND LUNAR ECLIPSES HAPPEN AND THE HISTORY OF LUNAR EXPLORATION WHAT IS THE MOON MADE OF AND HOW DID IT FORM LEARN ABOUT THE MOON S VIOLENT ORIGINS HOW ITS PHASES SHAPED THE EARLIEST CALENDARS AND HOW HUMANS FIRST EXPLORED EARTH S ONLY NATURAL WHAT IS THE MOON MADE OF AND HOW DID IT FORM LEARN ABOUT THE MOON S VIOLENT ORIGINS HOW ITS PHASES SHAPED THE EARLIEST CALENDARS AND HOW HUMANS FIRST EXPLORED EARTH S ONLY NATURAL MOON PHASE FOR TODAY AND TONIGHT WITH CURRENT LUNAR PHASE ILLUMINATION PERCENTAGE AND MOONS AGE FIND OUT WHAT THE MOON PHASE IS ON ANY OTHER DAY OF THE YEAR

#### CHINA BECOMES FIRST COUNTRY TO RETRIEVE ROCKS FROM MOON S FAR MAY 27 2024

THE CHANG E Ó MISSION S SAMPLE WHICH MIGHT HOLD CLUES ABOUT THE ORIGINS OF THE MOON AND EARTH IS THE LATEST ACHIEVEMENT OF CHINA S LUNAR EXPLORATION PROGRAM BY KATRINA MILLER KATRINA

# CHINA S CHANG E 6 MOON MISSION RETURNS TO EARTH CNN APR 26 2024

The change 6 probe is expected to have returned to earth with up to 2 kilograms of moon dust and rocks from the lunar far side which will be analyzed by researchers in china before being

# EVERYTHING YOU NEED TO KNOW ABOUT THE MOON ASTRONOMY COM MAR 25 2024

THE MOON IS EARTH S ONLY PERMANENT NATURAL SATELLITE AND IT S THE FIFTH LARGEST SATELLITE IN OUR SOLAR SYSTEM

### MOON WIKIPEDIA *Feb 24 2024*

THE MOON IS EARTH S ONLY NATURAL SATELLITE IT ORBITS AT AN AVERAGE DISTANCE OF 384 400 KM 238 900 MI ABOUT 30 TIMES THE DIAMETER OF EARTH

#### MOON FACTS NASA SCIENCE JAN 23 2024

MOON FACTS THE BRIGHTEST AND LARGEST OBJECT IN OUR NIGHT SKY THE MOON MAKES EARTH A MORE LIVABLE PLANET BY MODERATING OUR HOME PLANET S WOBBLE ON ITS AXIS LEADING TO A RELATIVELY STABLE CLIMATE IT ALSO CAUSES TIDES CREATING A RHYTHM THAT HAS GUIDED HUMANS FOR THOUSANDS OF YEARS 10 THINGS

#### ALL ABOUT THE MOON NASA SPACE PLACE NASA SCIENCE FOR KIDS DEC 22 2023

EARTH HAS JUST ONE MOON A ROCKY CRATERED PLACE ROUGHLY A QUARTER THE SIZE OF EARTH AND AN AVERAGE OF 238 855 MILES AWAY THE MOON CAN BE SEEN WITH THE NAKED EYE MOST NIGHTS AS IT TRACES ITS 27 DAY ORBIT AROUND OUR PLANET

# MOON PHASES NASA SCIENCE Nov 21 2023

THE BEST TIMES TO SEE A DAYTIME MOON ARE PERHAPS DURING THE FIRST AND LAST QUARTER PHASES WHEN THE MOON IS HIGH ENOUGH ABOVE THE HORIZON AND AT ABOUT 90 DEGREES FROM THE SUN IN THE SKY THIS HELPS MAKE THE SUN S REFLECTED LIGHT BRIGHT ENOUGH TO SEE AS IT REFLECTS OFF OF THE MOON

# MOON NASA SCIENCE OCT 20 2023

EARTH S MOON IS THE BRIGHTEST AND LARGEST OBJECT IN OUR NIGHT SKY THE MOON MAKES EARTH A MORE LIVABLE PLANET BY MODERATING OUR HOME PLANET S WOBBLE ON ITS AXIS LEADING TO A RELATIVELY STABLE CLIMATE IT ALSO CAUSES TIDES CREATING A RHYTHM THAT HAS GUIDED HUMANS FOR THOUSANDS OF YEARS

# CHANG E 6 CHINA S SPACE PROBE RETURNS WITH RARE MOON ROCKS BBC SEP 19 2023

CHINA SPACE PROBE RETURNS WITH RARE MOON ROCKS CHINA S LUNAR PROBE HAS RETURNED TO EARTH WITH THE FIRST EVER SAMPLES FROM THE MOON S UNEXPLORED FAR SIDE THE CHANG E & LANDED IN THE INNER

#### MOON FEATURES PHASES SURFACE EXPLORATION FACTS AUG 18 2023

MOON EARTH S SOLE NATURAL SATELLITE AND NEAREST CELESTIAL BODY KNOWN SINCE PREHISTORIC TIMES IT IS THE BRIGHTEST OBJECT IN THE SKY AFTER THE SUN ITS NAME IN ENGLISH LIKE THAT OF EARTH IS OF GERMANIC AND OLD ENGLISH DERIVATION

#### IN DEPTH EARTH S MOON NASA SOLAR SYSTEM EXPLORATION JUL 17 2023

THE MOON MAKES A COMPLETE ORBIT AROUND EARTH IN 27 EARTH DAYS AND ROTATES OR SPINS AT THAT SAME RATE OR IN THAT SAME AMOUNT OF TIME BECAUSE EARTH IS MOVING AS WELL ROTATING ON ITS AXIS AS IT ORBITS THE SUN FROM OUR PERSPECTIVE THE MOON APPEARS TO ORBIT US EVERY 29 DAYS

#### OVERVIEW PHASES ECLIPSES SUPERMOONS MOON NASA SCIENCE JUN 16 2023

IMAGINE YOU RE IN A SPACESHIP TRAVELING AWAY FROM EARTH AS YOU SAIL ONWARD YOU SEE OUR PLANET AND ITS MOON LOCKED TOGETHER IN THEIR ENDLESS CIRCLING GRAVITATIONAL EMBRACE

#### NASA MOON AND MARS MAY 15 2023

WITH SOME OF HUMANITY S MOST ADVANCED TECHNOLOGIES FUTURE ASTRONAUTS WILL STAY LONGER ON THE SURFACE OF THE MOON EXPLORE MORE OF THE MOON THAN EVER IMAGINED AND BUILD A SUSTAINABLE PRESENCE A NEW CLASS OF POWER SYSTEMS WILL SUPPORT FUTURE HUMAN OUTPOSTS

#### CHINA RETURNS THE FIRST EVER SAMPLE OF THE MOON S FAR SIDE NPR APR 14 2023

CHINA RETURNS THE FIRST EVER SAMPLE OF THE MOON S FAR SIDE THE FAR SIDE OF THE MOON LOOKS VERY DIFFERENT FROM THE NEAR SIDE AND WITH THE CHANG E

#### UNDERSTANDING THE PHASES OF THE MOON ASTRONOMY COM MAR 13 2023

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# DAILY MOON GUIDE OBSERVE MOON NASA SCIENCE FEB 12 2023

NASA S INTERACTIVE MAP FOR OBSERVING THE MOON EACH DAY OF THE YEAR

#### THE MOON A COMPLETE GUIDE TO EARTH S COMPANION SPACE JAN 11 2023

LEARN HOW EARTH S MOON FORMED HOW ITS ORBIT AFFECTS EARTH S TIDES WHY SOLAR AND LUNAR ECLIPSES HAPPEN AND THE HISTORY OF LUNAR EXPLORATION

#### EARTH S MOON FACTS AND INFORMATION NATIONAL GEOGRAPHIC DEC 10 2022

WHAT IS THE MOON MADE OF AND HOW DID IT FORM LEARN ABOUT THE MOON S VIOLENT ORIGINS HOW ITS PHASES SHAPED THE EARLIEST CALENDARS AND HOW HUMANS FIRST EXPLORED EARTH S ONLY NATURAL

#### MOON 101 NATIONAL GEOGRAPHIC YOUTUBE Nov 09 2022

WHAT IS THE MOON MADE OF AND HOW DID IT FORM LEARN ABOUT THE MOON S VIOLENT ORIGINS HOW ITS PHASES SHAPED THE EARLIEST CALENDARS AND HOW HUMANS FIRST EXPLORED EARTH S ONLY NATURAL

#### TODAY S MOON PHASE CURRENT MOON CYCLE FOR TODAY AND TONIGHT OCT 08 2022

MOON PHASE FOR TODAY AND TONIGHT WITH CURRENT LUNAR PHASE ILLUMINATION PERCENTAGE AND MOONS AGE FIND OUT WHAT THE MOON PHASE IS ON ANY OTHER DAY OF THE YEAR

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