

ROLL AND READ

THE MOON AND THE SUN

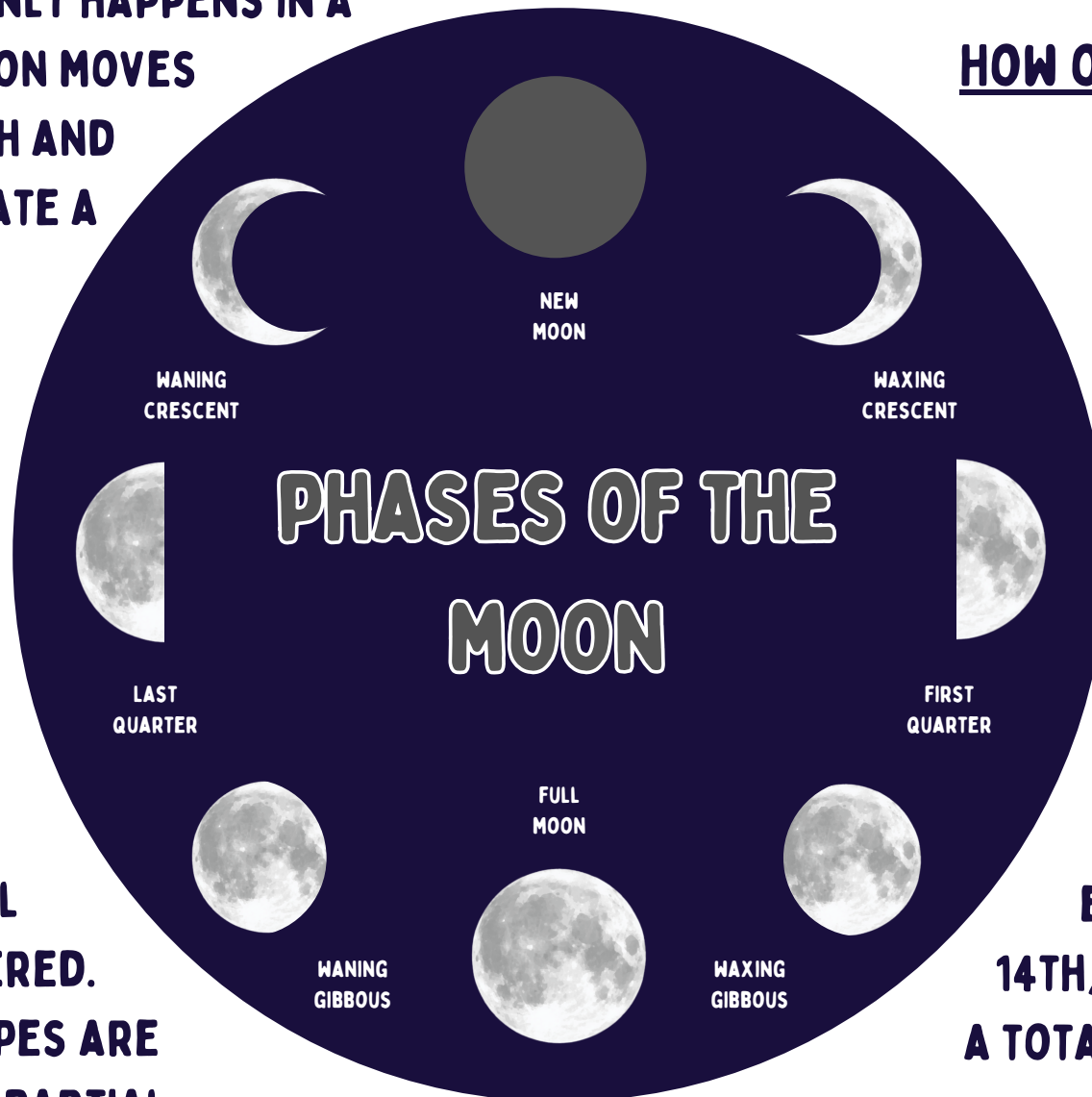
INSTRUCTIONS:

1. FIRST, READ PAGE 2 BEFORE PLAYING TO LEARN MORE ABOUT THE MOON, SUN, AND ECLIPSES.
2. TO PLAY, YOU WILL NEED A GAME BOARD AND A DICE. THESE ARE PAGES 3 AND 4.
3. TO CREATE THE DICE YOU WILL CUT ALL AROUND THE OUTER BLACK LINES. NEXT, YOU WILL FOLD IN THE WHITE 'FOLD' SECTIONS. THEN YOU WILL FOLD ALL OF THE BLACK SQUARES AND USE TAPE OR GLUE ON THE WHITE 'FOLD' SECTIONS TO HOLD THE DICE SHAPE TOGETHER.
4. YOU WILL ROLL THE DICE AND LOOK AT THE PICTURE YOU LAND ON. CHOOSE A WORD IN THAT COLUMN TO READ. ONCE YOU HAVE READ IT YOU CAN CROSS IT OFF (OR MARK IT WITH A TOKEN).
5. IF YOU GET 5 IN A ROW (HORIZONTAL, VERTICAL, OR DIAGONAL), YOU WIN!

NOTES: YOU MAY CHOOSE TO CUT OUT THE TOKENS ON PAGE 5 TO RE-USE THE GAME BOARD. YOU MAY ALSO CHOOSE TO FILL IN THE BOARD ON PAGE 6 WITH YOUR OWN WORDS OR EVEN MATH EQUATIONS!

WHAT IS A SOLAR ECLIPSE?

A SOLAR ECLIPSE ONLY HAPPENS IN A NEW MOON. THE MOON MOVES BETWEEN THE EARTH AND SUN. THIS WILL CREATE A SHADOW. THE DARK PART OF THIS SHADOW IS CALLED THE UMBRA. THE LIGHT PART IS CALLED THE PENUMBRA. THERE ARE DIFFERENT TYPES OF ECLIPSES WHERE SOME OR ALL OF THE SUN IS COVERED. THE THREE MAIN TYPES ARE CALLED THE TOTAL, PARTIAL, AND ANNULAR ECLIPSES.



HOW OFTEN DO WE HAVE

SOLAR ECLIPSES?

THERE ARE AROUND TWO TO FIVE SOLAR ECLIPSES A YEAR. IT DEPENDS ON WHERE YOU LIVE ON EARTH.







FUN FACT:

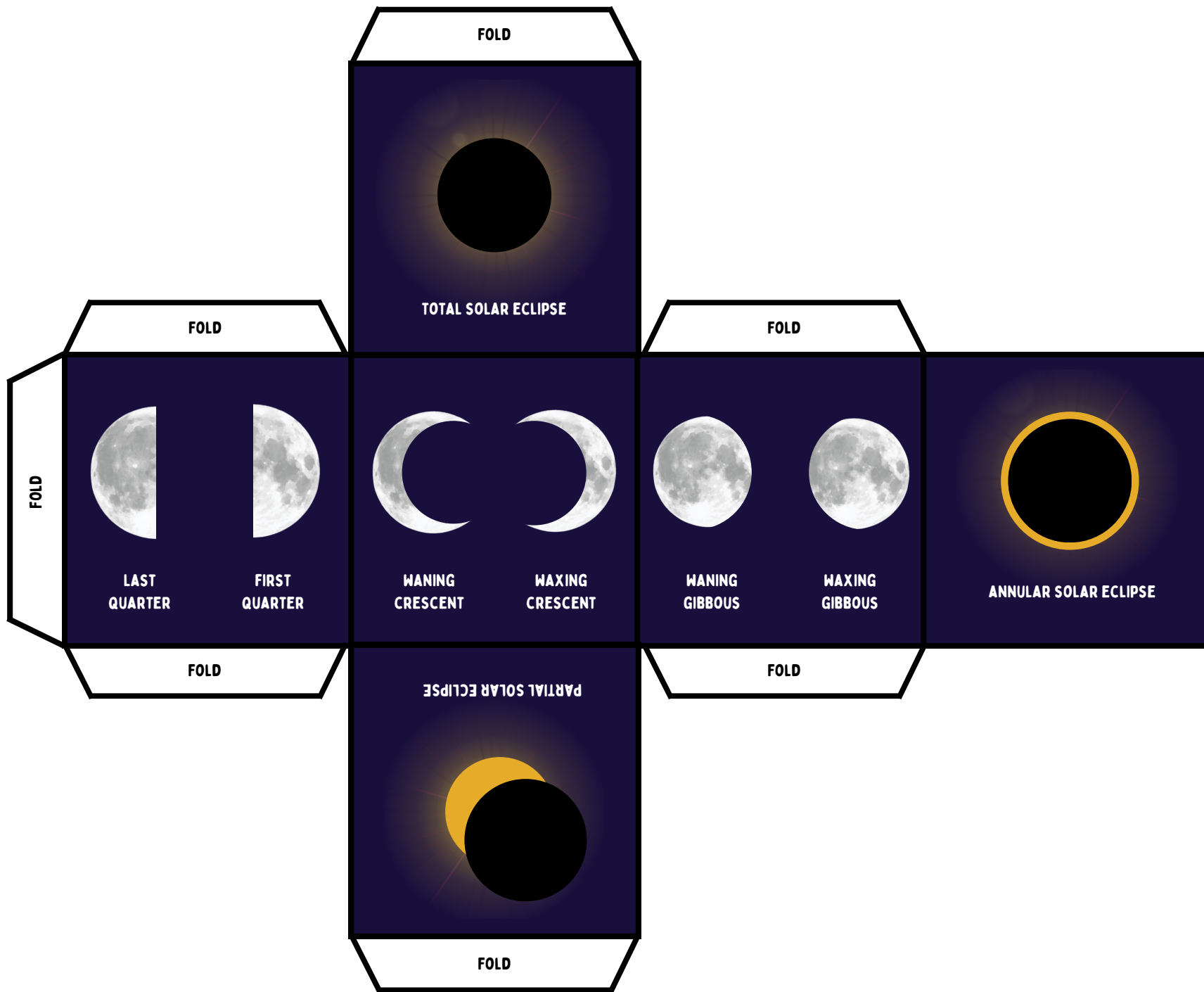
THERE WAS AN ANNULAR SOLAR ECLIPSE ON OCTOBER 14TH, 2023. THERE WILL BE A TOTAL SOLAR ECLIPSE ON APRIL 8TH, 2024!

IF YOU HAVEN'T HEARD OF A
WORD BEFORE, TAKE A MOMENT
TO SEARCH IT AND FIND OUT
WHAT IT MEANS!

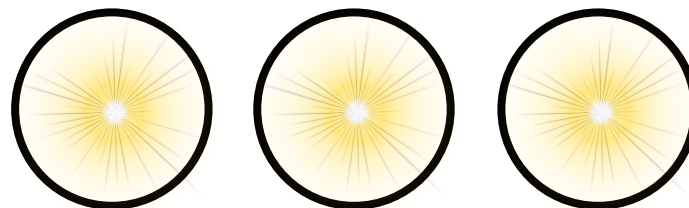
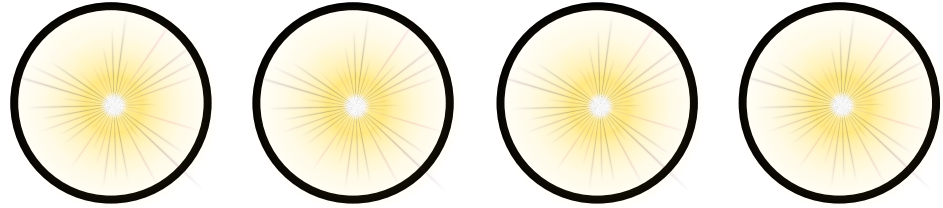
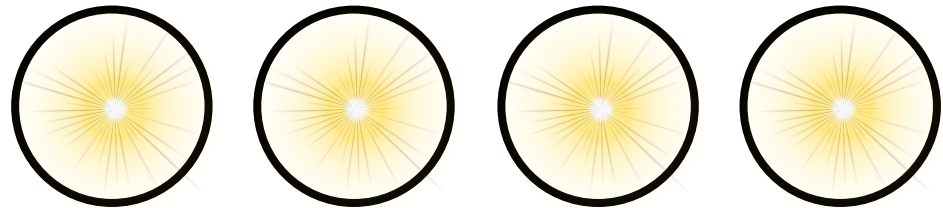
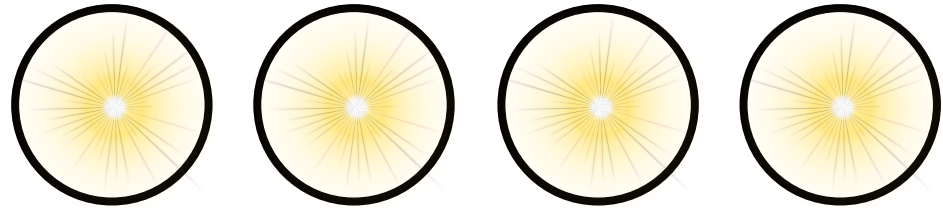
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HALF	WANING	GIBBOUS	TOTAL	PARTIAL	ANNULAR
LAST	WAXING	ORBIT	SOLAR	SHADOW	ECLIPSE
FIRST	LIGHT	DARK	UMBRA	PENUMBRA	SATELLITE
CYCLE	CRESCENT	SUN	REVOLVE	PATTERN	ATMOSPHERE
QUARTER	PHASE	MOON	EARTH	ORBIT	REFLECT



OPTIONAL TOKENS: YOU MAY CHOOSE TO PRINT THESE OFF AND USE THEM TO MARK OFF THE RECTANGLES AS YOU GO. ONE PLAYER CAN BE THE MOON, AND ONE CAN BE THE SUN.



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