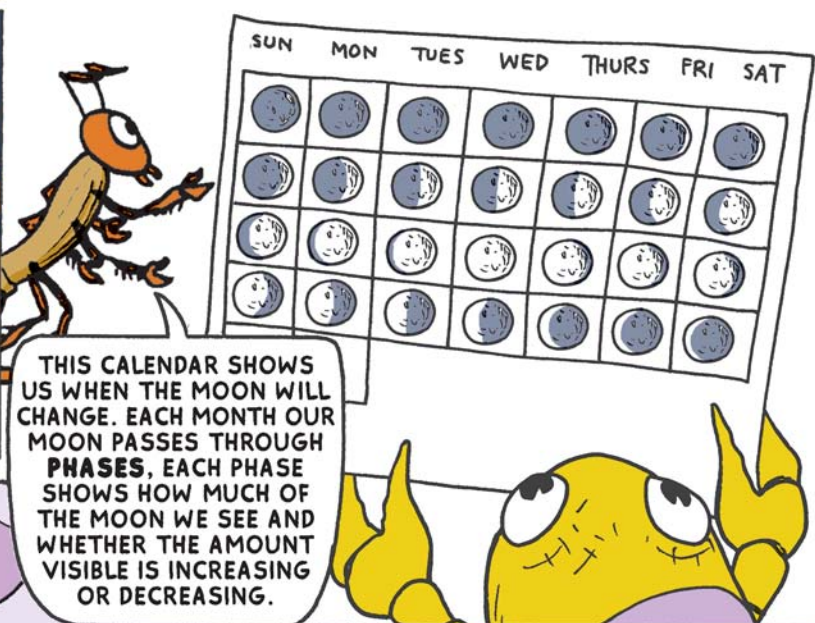
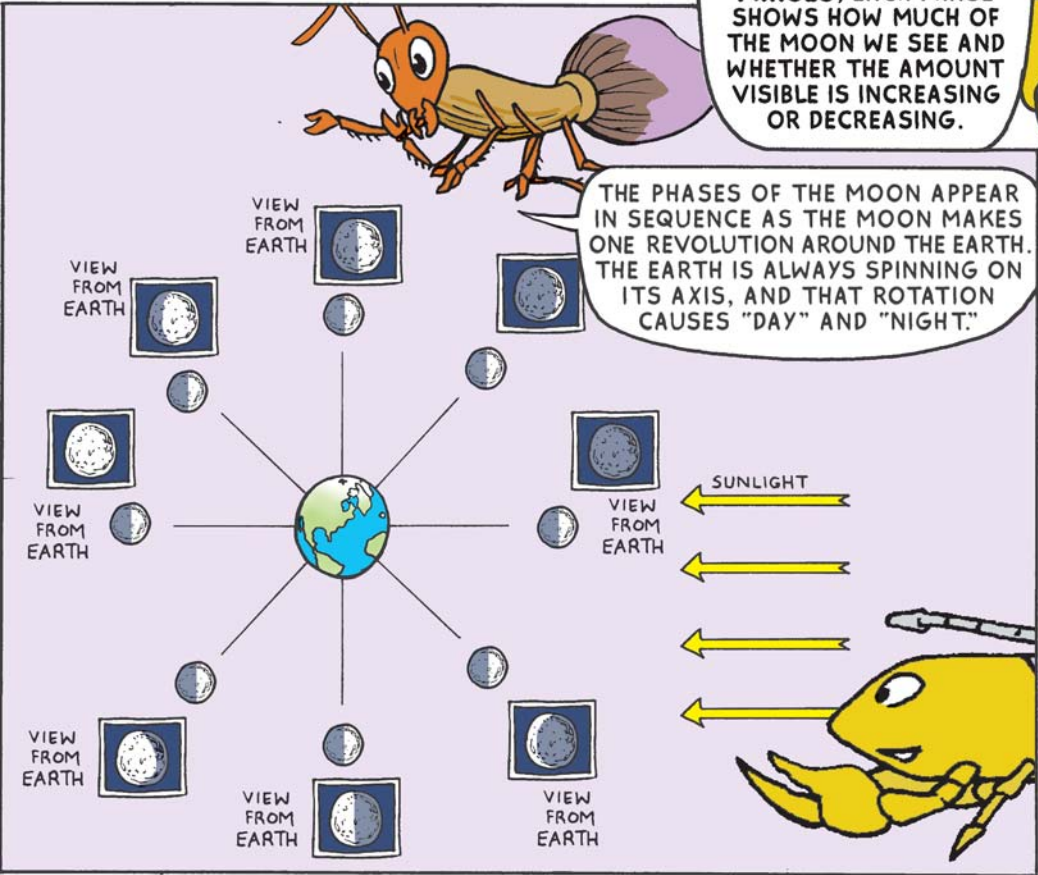




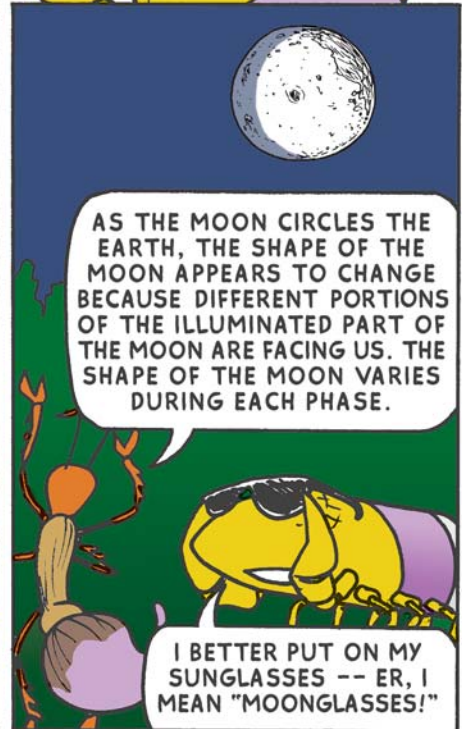
ACTUALLY, SCORPY, THE SUN DOES SHINE ALL THE TIME. THE MOON APPEARS ILLUMINATED AT NIGHT BECAUSE LIGHT FROM THE SUN REFLECTS ONTO THE MOON.



THIS CALENDAR SHOWS US WHEN THE MOON WILL CHANGE. EACH MONTH OUR MOON PASSES THROUGH PHASES, EACH PHASE SHOWS HOW MUCH OF THE MOON WE SEE AND WHETHER THE AMOUNT VISIBLE IS INCREASING OR DECREASING.



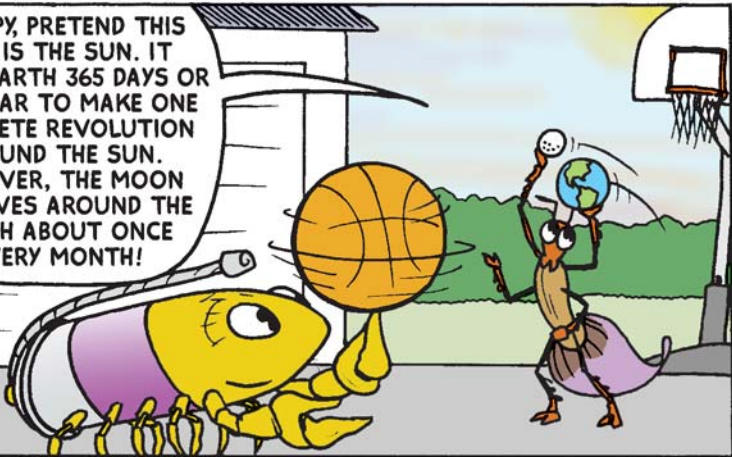
THE PHASES OF THE MOON APPEAR IN SEQUENCE AS THE MOON MAKES ONE REVOLUTION AROUND THE EARTH. THE EARTH IS ALWAYS SPINNING ON ITS AXIS, AND THAT ROTATION CAUSES "DAY" AND "NIGHT."



AS THE MOON CIRCLES THE EARTH, THE SHAPE OF THE MOON APPEARS TO CHANGE BECAUSE DIFFERENT PORTIONS OF THE ILLUMINATED PART OF THE MOON ARE FACING US. THE SHAPE OF THE MOON VARIES DURING EACH PHASE.

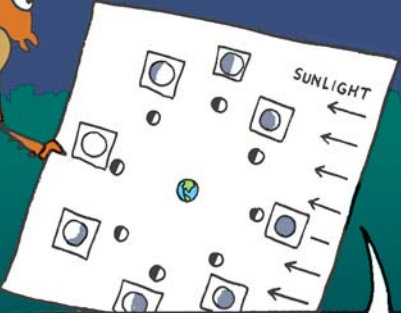
I BETTER PUT ON MY SUNGLASSES -- ER, I MEAN "MOONGLASSES!"

SCORPY, PRETEND THIS BALL IS THE SUN. IT TAKES EARTH 365 DAYS OR ONE YEAR TO MAKE ONE COMPLETE REVOLUTION AROUND THE SUN. HOWEVER, THE MOON REVOLVES AROUND THE EARTH ABOUT ONCE EVERY MONTH!



EACH MONTH OUR MOON PASSES THROUGH EIGHT PHASES. THESE PHASES REFLECT HOW MUCH OF THE MOON WE SEE AND WHETHER THE AMOUNT VISIBLE IS INCREASING OR DECREASING EACH DAY.

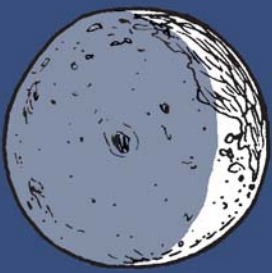
THAT'S A LOT OF PHASES.



THIS PHASE IS CALLED **NEW MOON**. RIGHT NOW THE SIDE OF THE MOON FACING THE EARTH IS NOT ILLUMINATED BY THE SUN. ADDITIONALLY, THE MOON IS UP DURING THE DAY AND DOWN THROUGHOUT THE NIGHT.



BUT WE KNOW IT'S STILL THERE!!

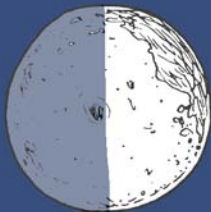


WITH A **WAXING CRESCENT** MOON, A SMALL SLIVER OF THE MOON BEGINS TO SHOW AND CAN BE SEEN EACH EVENING A FEW MINUTES AFTER SUNSET. IT IS A WAXING MOON BECAUSE EACH NIGHT A LITTLE BIT MORE IS VISIBLE FOR A LITTLE BIT LONGER.



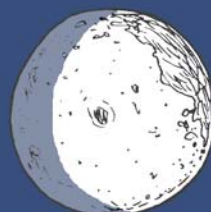
I THINK THE WAXING CRESCENT IS MY FAVORITE!

DURING A FIRST QUARTER MOON, ONE HALF OF THE MOON IS VISIBLE FOR THE FIRST HALF OF THE EVENING, AND THEN IT GOES DOWN. AFTER THE MOON FALLS, THE SKY BECOMES VERY DARK.



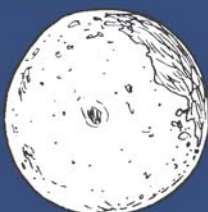
WELL, I'M ASLEEP THEN ANYWAY.

WITH A WAXING GIBBOUS MOON, OBSERVERS SEE ALL BUT A LITTLE SLICE OF THE MOON. THE MOON REMAINS IN THE SKY MOST OF THE NIGHT. WAXING MEANS THAT IT LOOKS LARGER OR FATTER.



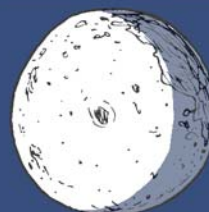
HMMM, WAX DOES KEEP THINGS SHINY!

DURING A FULL MOON, WE CAN SEE THE ENTIRE FACE OF THE MOON. IT RISES JUST AS NIGHT BEGINS AND SETS ABOUT THE TIME IT IS MORNING. DURING A FULL MOON, THE NIGHT IS BRIGHT.



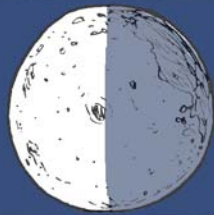
NO NEED FOR A FLASHLIGHT TONIGHT!

WITH A WANING GIBBOUS MOON, WE CAN SEE A SLIVER OF THE MOON, SEEING LESS AND LESS OF THE MOON EACH NIGHT. WANING MEANS THE MOON APPEARS TO BE GETTING THINNER.



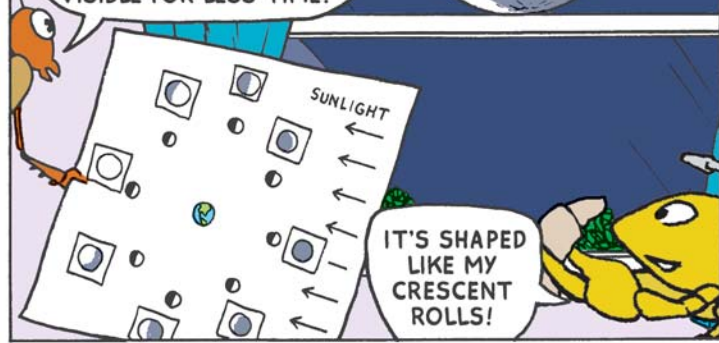
I BETTER EAT THIS SMORE OR I'LL BE WANING, TOO!

DURING A LAST QUARTER MOON, WE CAN SEE EXACTLY ONE HALF OF THE MOON'S LIT SURFACE. SOME PEOPLE REFER TO THIS AS HALF A MOON.

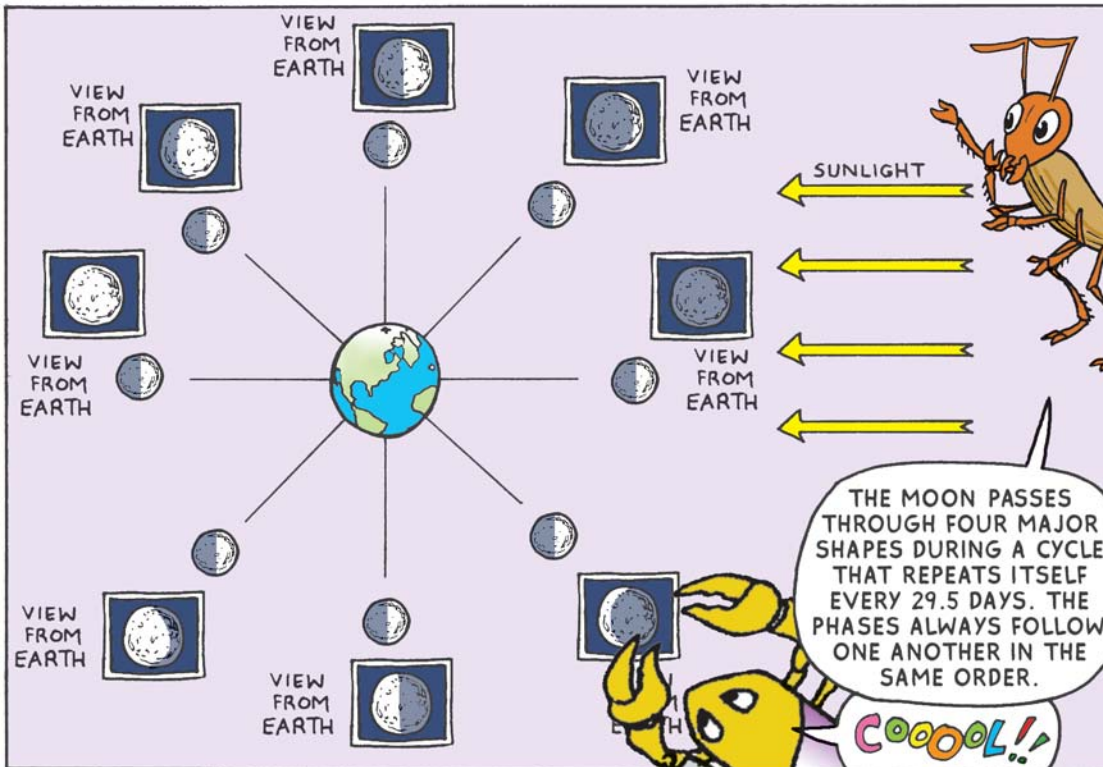


I GUESS IT'S REALLY A "TWO QUARTER MOON."

THE LAST PHASE IS CALLED A WANING CRESCENT MOON. OBSERVERS ON EARTH CAN SEE ONLY A SMALL SLICE OF THE MOON AND ONLY JUST BEFORE THE MORNING. EACH NIGHT LESS OF THE MOON IS VISIBLE FOR LESS TIME.

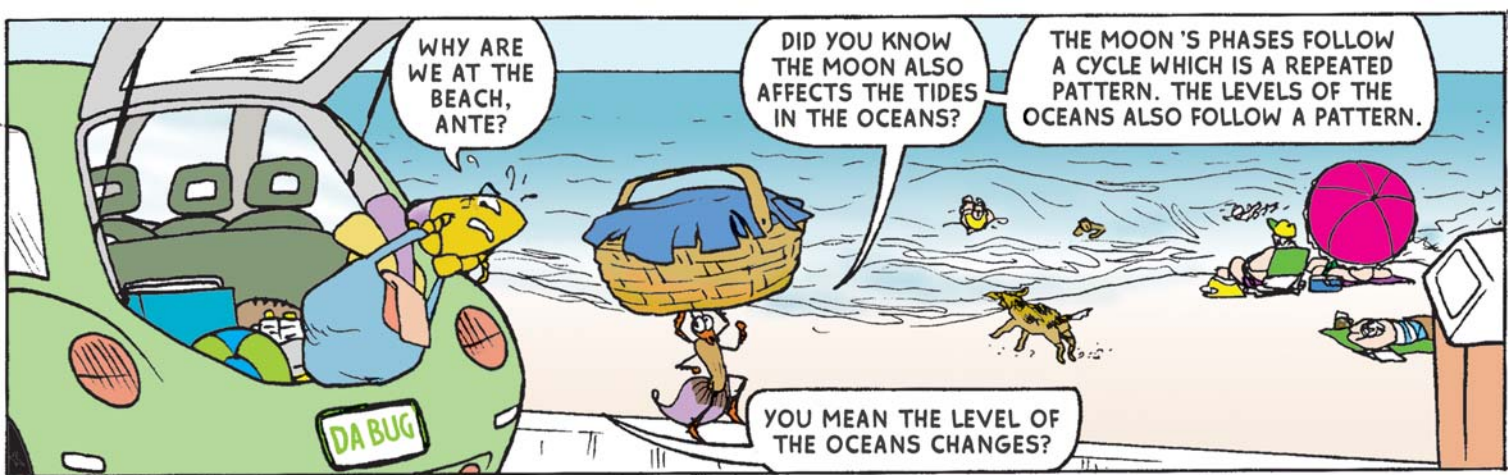


IT'S SHAPED LIKE MY CRESCENT ROLLS!



WE'VE SENT ASTRONAUTS TO THE MOON - THE LAST TIME IN 1972.

THAT'S ONE SMALL STEP FOR A BUG, ONE GIANT LEAP FOR BUGKIND!



WHY ARE WE AT THE BEACH, ANTE?

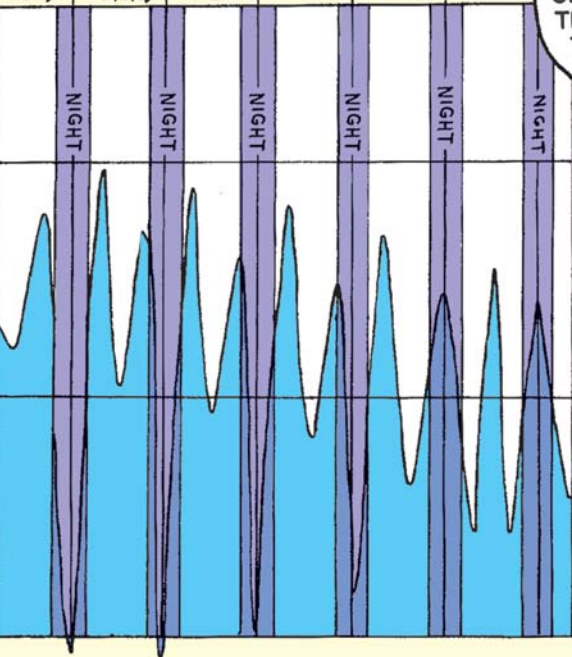
DID YOU KNOW THE MOON ALSO AFFECTS THE TIDES IN THE OCEANS?

THE MOON'S PHASES FOLLOW A CYCLE WHICH IS A REPEATED PATTERN. THE LEVELS OF THE OCEANS ALSO FOLLOW A PATTERN.

YOU MEAN THE LEVEL OF THE OCEANS CHANGES?

Tide Chart

SUND MOND TUESD WEDN THURS FRID



YES! THE TIDES FOLLOW A PATTERN OF TWO HIGH AND TWO LOW TIDES EVERY 24 HOURS. TIDES ARE THE RESULT OF THE GRAVITATIONAL PULL OF THE MOON AND SUN ON THE SURFACE WATERS OF THE EARTH.



SO THAT IS WHY WE HEAR THE TERMS "HIGH TIDE" AND "LOW TIDE!"



THAT'S RIGHT. THOSE TIDES CAN MAKE BUILDING A SAND CASTLE TOUGH!

I JUST NEED TO BUILD IT FAR AWAY FROM THE OCEAN SO HIGH TIDE WON'T TAKE IT OUT TO SEA!