

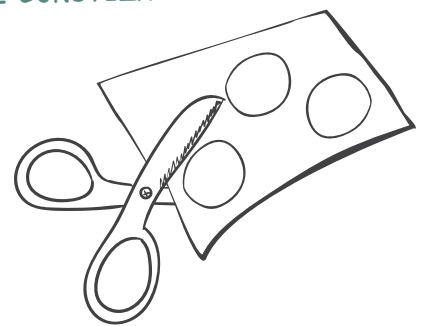
# HOW TO CAST A CONSTELLATION



## SUPPLIES

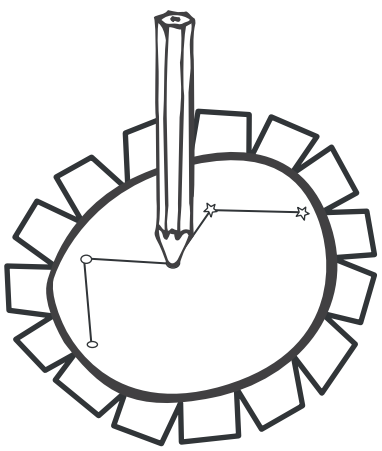
- 3 CARDBOARD PAPER TOWEL ROLLS
- PRINTER
- POINT TORCH FLASHLIGHT
- SHARP PENCIL OR TOOTHPICK
- GLUE STICK
- SCISSORS

1 PRINT OUT THE WORKSHEET WITH THE CONSTELLATIONS



2 CUT OUT THE VARIOUS DESIGNS ALONG THE TRACED LINES

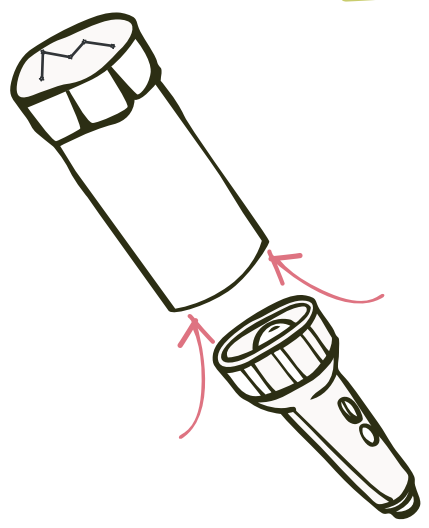
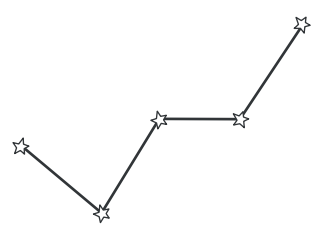
3 POKE HOLES IN THE DISKS THAT CORRESPOND WITH THE STAR PATTERNS



4 PLACE THE CUT OUT DISK AT THE END OF A PAPER TOWEL ROLL AND THEN GLUE DOWN THE TABS TO HOLD IT INTO PLACE

5 INSERT YOUR FLASHLIGHT INTO THE CARDBOARD ROLL AND POINT IT ON A WALL INSIDE OF A DARK ROOM

LIKE MAGIC, YOU WILL SEE THE IMAGE OF THE CONSTELLATION PROJECTED ON THE WALL JUST LIKE YOU WOULD SEE OUTSIDE ON A DARK NIGHT

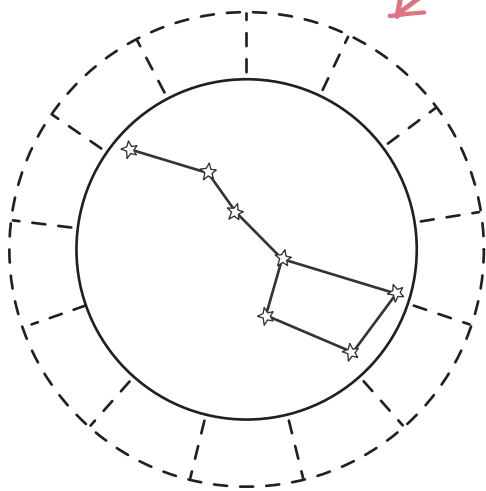


Oops... WHAT IS A CONSTELLATION?



A CONSTELLATION IS A GROUP OF STARS THAT WHEN SEEN FROM EARTH CREATE AN IMAGE WHEN CONNECTING THEM LIKE A DOT-TO-DOT. THEY ARE OFTEN DESCRIBED AS THE SHAPE OF ANIMALS OR MYTHOLOGICAL FIGURES. ASTRONOMERS HAVE IDENTIFIED 88 STAR PATTERNS THAT MAKE UP THE CELESTIAL SPHERE WHICH IS USEFUL FOR CREATING A MAP OF THE STARS. SINCE ANCIENT TIMES, MANKIND HAS ASSOCIATED THESE DESIGNS WITH SYMBOLIC MEANINGS. THE MOST FAMOUS CONSTELLATIONS ARE THOSE THAT MAKE UP THE ZODIAC LIKE ARIES, TAURUS, AND GEMINI

## THE BIG DIPPER



THE TERMS URSA MAJOR AND URSA MINOR ARE THE NAMES OF TWO NOTED, LARGE CONSTELLATIONS. IN THE PAST, THESE TWO STAR PATTERNS WERE VERY HELPFUL TO ORIENT ONESELF AT NIGHT. GREEK MYTHOLOGY TELLS THE STORY OF HOW ZEUS FELL IN LOVE WITH THE BEAUTIFUL NYMPH CALLISTO. ARCAS WAS BORN FROM THEIR UNION. WHEN HERA, ZEUS' JEALOUS WIFE, DISCOVERS THIS SHE DECIDES TO GET VENGEANCE BY TURNING CALLISTO INTO A GIANT BEAR WHOSE DESTINY IS TO ROAM THE MOUNTAINS WITH THE TERROR OF BEING HUNTED DOWN HERSELF. ARCAS BECOMES AN ABLE HUNTER AND ONE DAY BY CHANCE HE RUNS ACROSS THE TRANSFORMED BEAR (REALLY HIS OWN MOTHER, CALLISTO) AND AT JUST THE MOMENT WHEN HE HAD POINTED HIS BOW AND ARROW TO KILL IT, ZEUS INTERVENED SAVING BOTH OF THEM AND TRANSFORMING HER INTO THE CONSTELLATION OF URSA MAJOR.

## THE CONSTELLATION OF ORION

ORION IS THE LARGEST OF ALL OF THE CONSTELLATIONS.

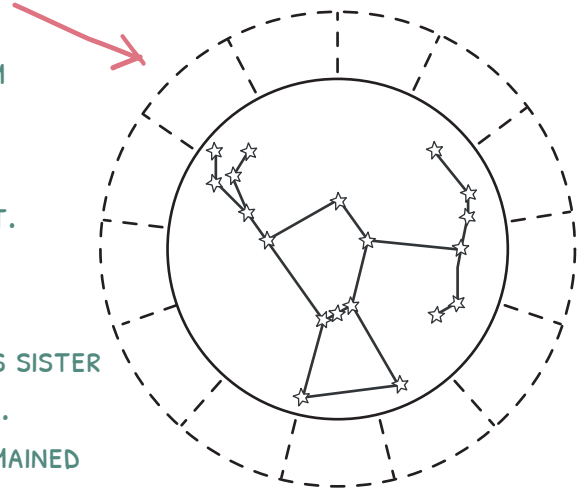
ACCORDING TO GREEK MYTHOLOGY, ITS NAME COMES FROM THE GIANT ORION, SON OF POSEIDON.

HE IS OFTEN PORTRAYED WITH A CLUB IN HIS RIGHT HAND, A SHIELD IN HIS LEFT AND A SWORD HANGING FROM HIS BELT.

THE THREE STARS OF HIS BELT MAKE UP THE MOST CHARACTERISTIC PART OF THIS CONSTELLATION.

THE ROMAN MYTH RECOUNTS THAT APOLLO CHALLENGED HIS SISTER THE HUNTING GODDESS ARTEMIS IN AN ARCHERY CONTEST.

ARTEMIS ACCIDENTALLY STRUCK ORION. THE GODDESS REMAINED SO FULL OF REMORSE AND SORROW THAT ZEUS HAD PITY ON HER AND DECIDED TO TURN BOTH ORION AND HIS FAITHFUL DOG SIRIUS INTO CONSTELLATIONS.



## CASSIOPEIA

CASSIOPEIA IS ONE OF THE EASIEST CONSTELLATIONS TO RECOGNIZE BECAUSE IT TAKES ON THE SHAPE OF THE LETTER W.

ACCORDING TO GREEK MYTHOLOGY CASSIOPEIA WAS THE BEAUTIFUL AND VANE QUEEN OF ETHIOPIA, WIFE TO KING CEPHEUS AND MOTHER OF ANDROMEDA.

THE QUEEN WAS SO VANE OF HER OWN UNRIVALED BEAUTY THAT THE OTHER GODDESSES DECIDED TO PUNISH HER FOR THIS AND FOR PUTTING HER OWN DAUGHTER ANDROMEDA INTO DANGER THAT THEY TRANSFORMED HER INTO A CONSTELLATION.

THEY CONDEMN HER TO AN ETERNITY OF ROTATING AROUND THE NORTH CELESTIAL POLE FOR ETERNITY.

