

MAKE A THERMOSCOPE

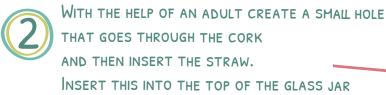


SUPPLIES

RUBBING ALCOHOL

- CORK TAP
- GLASS JARWITH A WIDE BASE
- TRANSPARENT STRAW
 AT LEAST 25 CM LONG (GLASS WOULD BE BEST)











THE RUBBING ALCOHOL

STARTS TO RISE UP INSIDE OF THE STRAW...

ALMOST TO THE TOP!!!

THIS IS NOT A THERMOMETER

BECAUSE IT DOES NOT HAVE A

GRADUATED SCALE OF MEASUREMENT.

THEREFORE IT CAN ONLY PROVIDE US

WITH A QUALITATIVE MEASUREMENT.

WHAT IS ?

THE RISE IN TEMPERATURE OF ALCHOOL CAUSES THE VOLUME TO INCREASE.

IN FACT, ALL MATTER UNDERGOES THERMAL EXPANSION.

THEREFORE FARMERS WILL SELL THEIR OLIVE OIL BY THE KILOGRAM INSTEAD OF BY THE LITER DUE TO THIS PHENOMENON OF THERMAL EXPANSION.

ACCORDING TO
GALILEO'S STUDENT,
VINCENZO VIVIANI, GALILEO
INVENTED AN INSTRUMENT TO
DETECT VARIATIONS IN
TEMPERATURE THAT HE CALLED A
THERMOSCOPE IN 1597