



26. STEAMED UP MIRROR

TEAM RFMS, REPORTER;ZHANNA

TASK

WHEN ONE BLOWS AIR ON A MIRROR OR A WINDOW PANE, IT GETS FOGGY. INVESTIGATE THIS EFFECT.

WHY

WHEN YOU EXHALE ON A COLDER GLASS OR MIRROR, WATER VAPOR IS CONDENSED FROM THE EXHALED AIR (PASSES FROM A GASEOUS TO A LIQUID STATE) IN THE FORM OF SMALL WATER DROPLETS, EVENLY DISTRIBUTED OVER THE SURFACE AND CREATING THE SO-CALLED "FOGGING" EFFECT.



ANOTHER EXPLANATION

THE AIR IN OUR LUNGS CONTAINS WATER VAPOR. WHEN THIS VAPOR COMES INTO CONTACT WITH THE SURFACE OF THE MIRROR, WHICH IS MOST OFTEN BELOW THE TEMPERATURE OF THE AIR FROM THE LUNGS, THE VAPOR CONDENSES - HENCE MANY SMALL DROPLETS FORM, THE GLASS MISTS UP.



CONDENSATION

CONDENSATION IS THE CHANGE OF THE PHYSICAL STATE OF MATTER FROM THE GAS PHASE INTO THE LIQUID PHASE, AND IS THE REVERSE OF VAPORIZATION. THE WORD MOST OFTEN REFERS TO THE WATER CYCLE.^[1] IT CAN ALSO BE DEFINED AS THE CHANGE IN THE STATE OF WATER VAPOR TO LIQUID WATER WHEN IN CONTACT WITH A LIQUID OR SOLID SURFACE OR CLOUD CONDENSATION NUCLEI WITHIN THE ATMOSPHERE. WHEN THE TRANSITION HAPPENS FROM THE GASEOUS PHASE INTO THE SOLID PHASE DIRECTLY, THE CHANGE IS CALLED DEPOSITION.



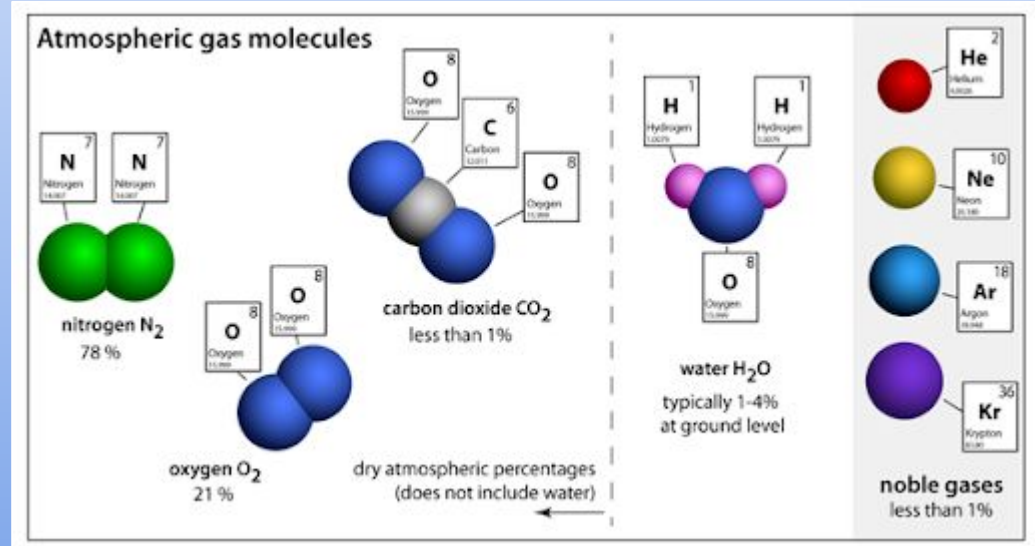
THE OTHER INGREDIENTS THAT MAKE UP THE EXHALED MIXTURE ARE:

NITROGEN N₂;

OXYGEN O₂;

CARBON DIOXIDE CO₂;

INERT GASES ARGON AR, NEON NE,
KRYPTON KE, HELIUM AND OTHERS.



EXPERIMENT

EQUIPMENT:

WATER VAPOR KETTLE

WINDOW PANE

CAMERA



EXPERIMENT

