Kinawa Middle School Teshnology Edusation

THE BUILDING OF LIGHT LASER ACTIVITY ...

MATERIALS AND EQUIPMENT:

Metrologic Laser

Jan of Air

Jan of Dir

Jan of Tap Water

Jan of Sa

Jan of Incense Smoke

Assorted Prisims

Can of Air

Jan of Dir

Jan of Air

Jan of Dir

Jan

Can of Air Freshener Jar of Distilled Water Jar of Salt Water Ice Cube White and Black Paper

INTRODUCTION:

Objects are visible because they reflect or scatter light to the eyes. Laser light is not visible to the eye unless, like ordinary light, there is something to to scatter it or reflect it to the eye. To illustrate this you will conduct the following activities with the laser and record your observations on the attached sheet.

. PROCEDURE:

- Set up the laser on the counter so the beam will show on wall.
- Spray a SHORT burst of air freshener in the beam of the laser making sure that it does not touch any equipment or supplies. Record your observations.
- Place the jar of air in the laser beam and record your observation of the contents of the jar and the image on the wall.
- 4. Place the jar of distilled water in the laser beam and record your observations of the jar and the image on the wall.
- 5. Continue placing objects in the laser beam and record your observations. Use the following items to place in the beam:
 - a. Tap Water
- b. Salt Water
- c. Smoke

- d. Ice Cube
- e. Assorted Prisims

MOTE: Make sure that you record all your observations on the attached data sheet. Make sure you also answer the questions. This should be your individual work and words, not that of other members of your team.

Developed through a grant from the Nichigan Department of Education - Yocational Technical Ed. Services

| | OBSERVATIONS | |
|------------------|--------------------------|---------|
| ITEH | OBSERVATION IN CONTAINER | OH VALL |
| AIR FRESHENER | | |
| AIR | | |
| DISTILLED WATER | 9 | |
| TAP WATER | | |
| SALT WATER | * | |
| INCENSE SMOKE | | |
| ICE CUBE | | |
| ASSORTED PRISIMS | | |

QUESTIONS:

- 1. Uhat color of light is the Metrologic laser?
- 2., Uhy does the laser beam become visible when solid particles come into the beam? Explain in detail !

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