Name:	Date:

TEST DOUBE DOEST

1. Circle True or False:

- a) Light is a type of energy.
- b) The colours in a rainbow have a specific order.
- c) Shadows form because light can be absorbed.
- d) Light reflects best off of dark surfaces.
- e) Water can be used as a magnifying lens.
- f) Sound is a type of energy.
- g) An echo is a sound that has reflected.
- h) Sound can move objects.
- i) Sound reflects best off of hard flat surfaces.

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- F

- 2. For each of the statements circle light, sound or both.
 - a) Travels in waves.
 - b) Can be modified
 - c) Can be reflected.
 - d) Can be absorbed.
 - e) Bends when it goes into a different substance.
 - f) Caused by vibrations.

Light Sound

Light Sound

Light Sound
Light Sound

Light Sound

Light Sound

3. Label the following as "light sources" or "reflected light."







reflected



reflected



source

Natural	Artificial
sun	light bulb
fire	TV
etc	etc
Make a list of three hot light source	es and three cool light sources.
Hot	Cool
Sun	firefly
fire	TV
etc	etc
when white light goes into a prism is bends a different amount and the re	s causes the light to bend. Each colour esult is that it shows a rainbow.
bends a different amount and the re Why might you recommend to some lights? (Be sure to discuss our expe In our experiment we measured the	esult is that it shows a rainbow. The energy second to LED Christmas eriment, not just prior knowledge.) The temperature change of regular and LED
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9. C	Describe how the human ear works.
	A sound wave is channelled into the ear by the outer ear. The wave then travels
(down the ear canal where it contacts the eardrum. When it contacts the ear
(drum, it causes the eardrum to vibrate. The vibrations are transferred to
•	three tiny bones in your middle ear. The bones then send the signal to the
	iquid filled, shell—shaped, cochlea in your inner ear. The cochlea has many hairs
l	attached to nerves that interpret the sound and send it to your brain.
li	Make a list of things that use light or sound to work. (Not things that produce ght or sound.)
_	Light — DVD Player, Video Game Systems, automatic Doors, Barcode
_	Scanner, Motion Sensors, Fibre Optics, Solar Panels, etc
_	
_	Sound - Ultrasound, Voice Activated Controls, Touch-Tone Phone, etc
_	
	Choose one human invention that uses light or sound to keep us safe. Explain low light or sound is used in this invention, and how it works to keep us safe.
l	Many possible answers.
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LIGHT AND SOUND

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5	Τ	Α	Α	Z	٧	-1	В	R	Α	Τ	-1	0	N	W	L	C
T	I	Z	٧	R	0	Τ	0	E	В	Τ	Q	K	L	M	N	Н
R	5	Н	E	Q	C	C	J	F	5	Μ	U	Υ	U	U	В	0
Α	Н	٧	5	F	Α	Н	G	L	0	В	K	R	5	٧	M	N
1	Α	1	G	Z	L	I	D	E	R	٧	D	E	Α	K	C	E
G	D	R	T	C	C	0	В	C	В	R	E	F	5	L	R	L
Н	0	N	K	D	0	Υ	R	Τ	Α	I	M	D	C	Υ	0	Α
T	W	N	U	N	R	F	1	E	J	M	Υ	Α	X	U	X	-1
C	Υ	W	₽	0	D	1	Н	G	5	E	G	N	D	Α	L	C
Α	W	0	В	L	5	Τ	G	L	Q	C	R	N	M	В	Α	-1
R	E	В	5	0	U	R	C	E	Α	R	E	E	0	Τ	₽	F
F	D	N	C	Q	Υ	Н	K	В	I	5	N	N	Q	Н	X	-1
E	N	-1	N	C	Α	N	D	E	5	C	E	N	Τ	G	N	Τ
R	0	Α	X	X	Υ	F	₽	Α	R	ı	D	R	X	-1	Z	R
J	M	R	D	₽	R	1	5	M	X	C	0	C	Н	L	E	Α
L	Α	R	Υ	N	X	M	E	F	L	E	D	Q	٧	F	₽	T

Absorb
Artificial
Beam
Cochlea
Ear Drum
Echo
Energy
Florescent
Hear
Incandescent

Larynx
Laser
LED
Light
Loudness
Natural
Pitch
Prism
Rainbow
Reflect

Refract
See
Shadow
Sound
Source
Straight
Vibration
Vocal Cords
Volume
Waves