

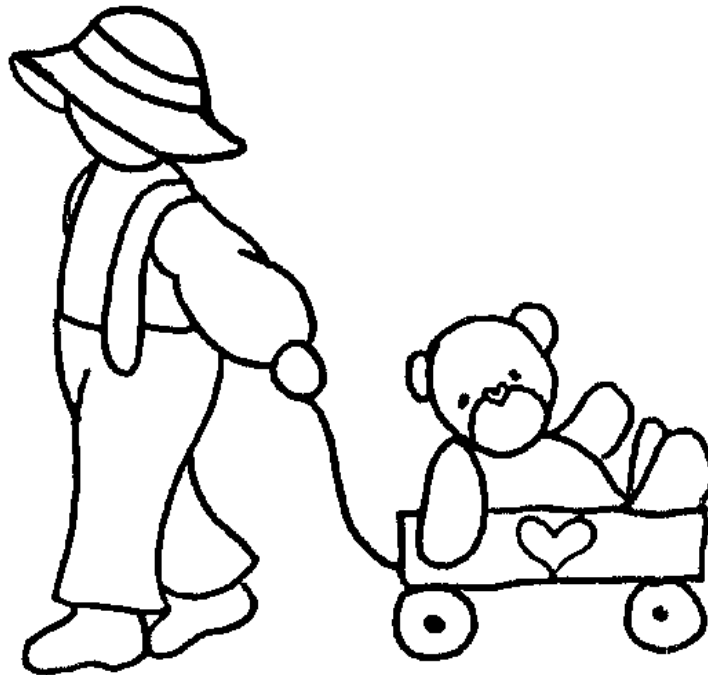


# Applied Science

Our Technological World



# FIRST GRADE WORKBOOK

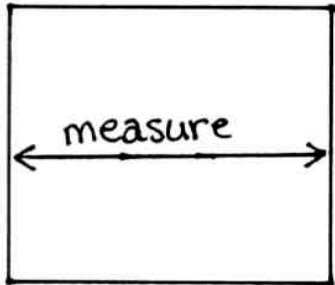
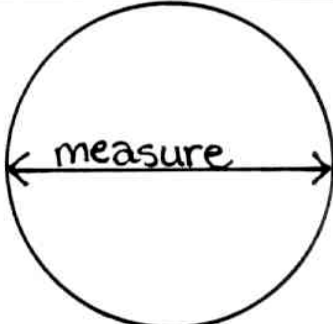
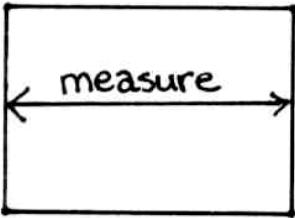
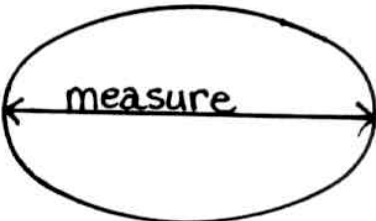
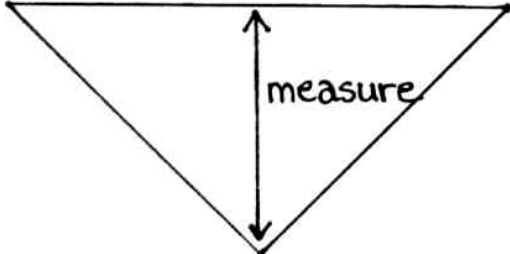
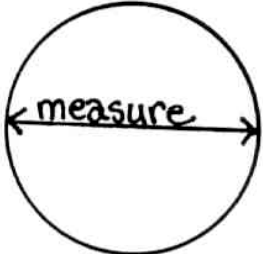


student \_\_\_\_\_



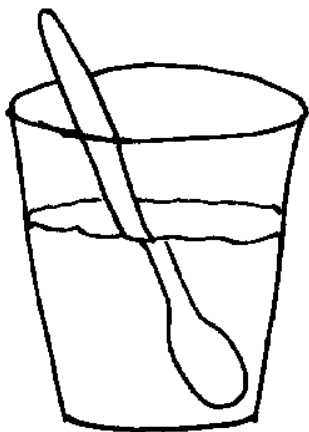
# APPLIED SCIENCE - SCIENCE AND MATH (1B) PRE

MEASURE THE FOLLOWING OBJECTS AS DIRECTED. RECORD YOUR ANSWER IN CENTIMETERS AND MILLIMETERS.

 _____ CM    _____ MM	 _____ CM    _____ MM
 _____ CM    _____ MM	 _____ CM    _____ MM
 _____ CM    _____ MM	 _____ CM    _____ MM

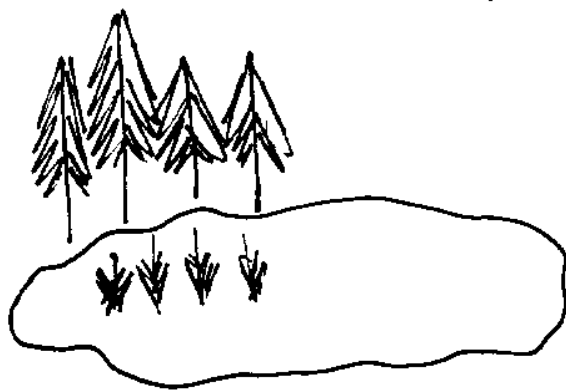
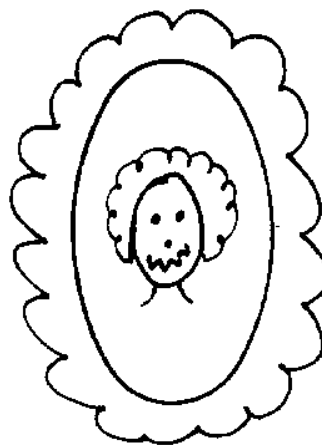
**APPLIED SCIENCE - SCIENCE AND MATH (1B)**[illegible]

a b c d e f g h i j k l m  
n o p q r s t u v w x y z  
, ; : . ! ( ) ? ‘ ’ HYPHEN DASH  
\_ \_



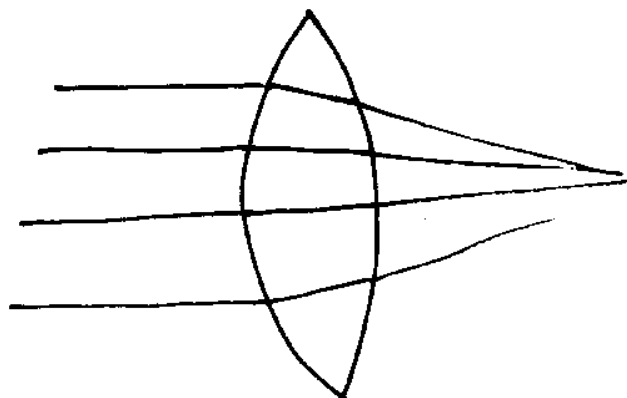
spoon in water  
refract

mirror  
reflect



water in lake  
reflect

through lens  
refract



## APPLIED SCIENCE - PHYSICS 1A

### LAB

**PROBLEM:** How can you determine if light reflects or refracts?

**PREDICTION:** \_\_\_\_\_

**PROCEDURE:** At each station, decide whether light reflects or refracts. Draw how you think the light travels.

DRAW HOW LIGHT TRAVELS	REFLECTS OR REFRACTS

**CONCLUSION:**

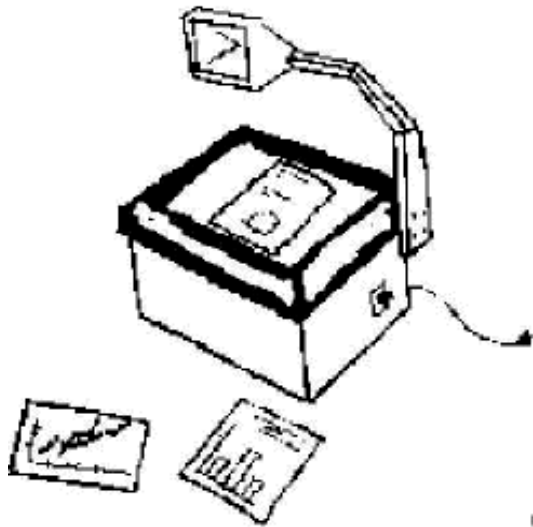
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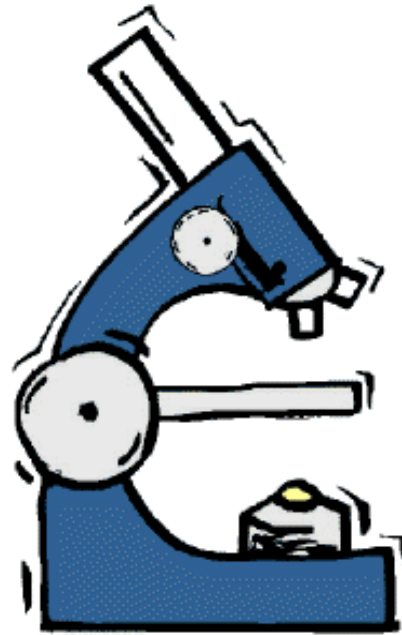
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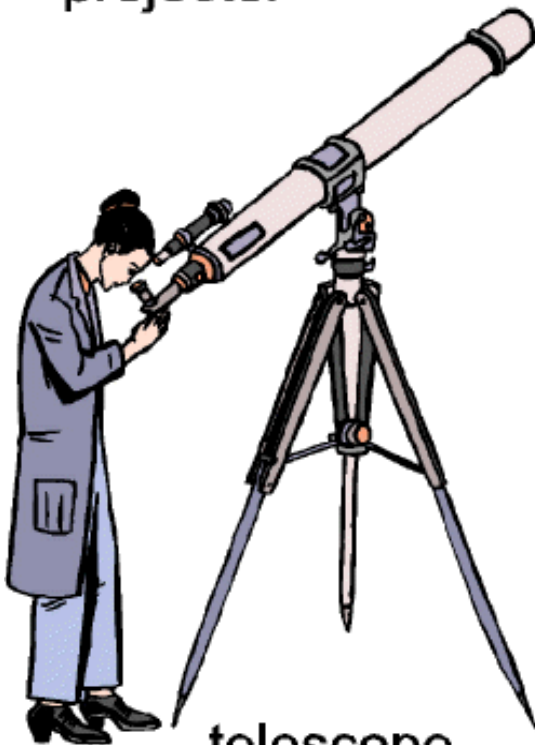
**CIRCLE WHERE YOU THINK THERE ARE LENSES IN  
THE FOLLOWING EQUIPMENT?**



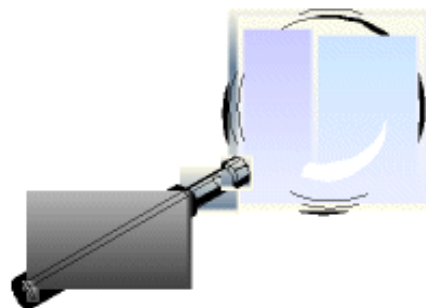
projector



microscope



telescope



magnifying glass



# MOTION MACHINES!



roller coaster

dog



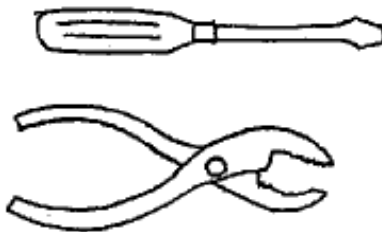
car



## APPLIED SCIENCE - PHYSICS (1B)

GO TO EACH OF THE STATIONS AND DRAW WHAT HAPPENS WHEN YOU "PLAY" WITH EACH TOY.

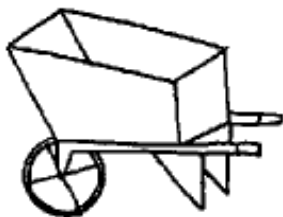
ITEM	DRAW (OR DESCRIBE )WHAT HAPPENS
1. Balloon	
2. Balls	
3. Newton's Yo-Yo	
4. Guac Ball	
5. Space Ball	
6. Orbiter	



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Lift

Push

Pull

Dig

Carry

Cut

Turn

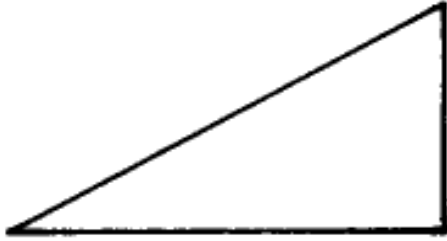
Stir

**APPLIED SCIENCE - TECHNOLOGY (1A)**

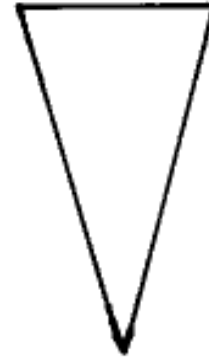
CHOOSE THE FOLLOWING: LEVER, SCREW, GEAR, WHEEL &amp; AXLE

ITEM	SIMPLE MACHINE
CORK SCREW	
CAN OPENER	
ICE CREAM SCOOP	
PIZZA CUTTER	
EGG BEATER	
ROLLING PIN	
FRUIT TWISTER	
SCISSOR	
CORN SKEWER	

RAMPS, WEDGES, LEVERS, AND PULLEYS



**ramp**



**wedge**



**lever**



**pulley**

## APPLIED SCIENCE - TECHNOLOGY (1B)

**PROBLEM:** Can I find simple machines?

Use the following words: wheel and axle, gear, pulley, lever, screw, wedge.

ITEM	SIMPLE MACHINE
HAMMER	
SCREW	
NAIL	
SCREW DRIVER	
PULLEY	
BOLTS	
TOY CAR (1)	
TOY CAR (2)	
AIRPLANE	
ROBOT	
HELICOPTER	

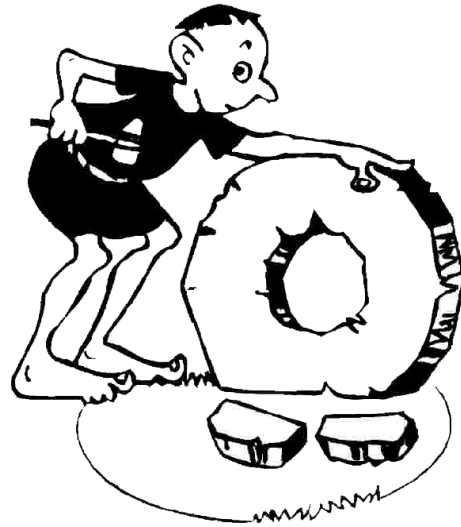
APPLIED SCIENCE - TECHNOLOGY (1B)

I wonder how a

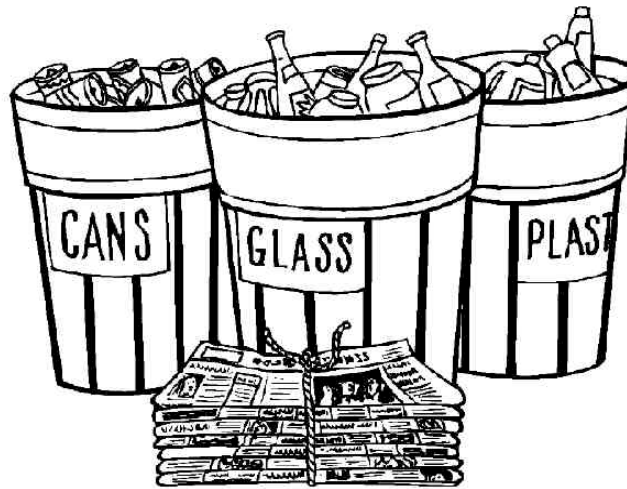
\_\_\_\_\_

was invented.

What would you like  
to invent? Draw it.



# WHAT IS SOLID WASTE?






# APPLIED SCIENCE - BUILT ENVIRONMENT (1) LAB

CLASS _____					
NAME OF STUDENT	PAPER	GLASS	METAL	PLASTICS	RUBBER
<b>TOTAL:</b>					

