



# Ice Investigator Journal



Name: \_\_\_\_\_

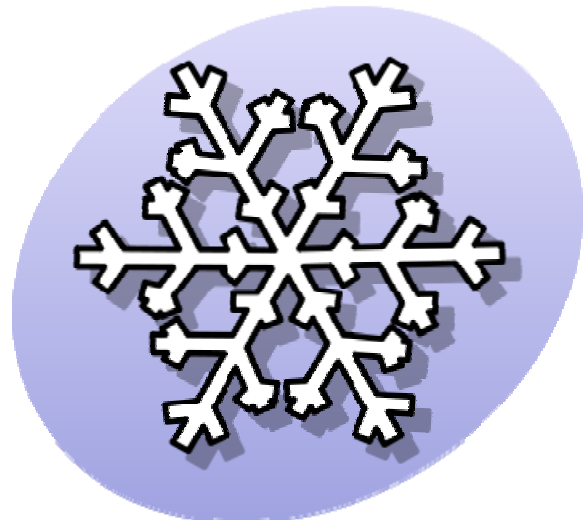
# Ice Bingo

## Things I Know About Ice:

1)

2)

3)



**Ice Bingo**  
**Things I Want to Know**  
**About Ice:**



# An Ice Magic Show

Water exists in three states on Earth. What are they? And what names do we usually use instead of the state names?

State	Name
_____	Ice
_____	_____
Gas	_____



Earth is the only planet on which water exists in all three states!

# **Around the Block: An Ice Tour**

## **-Investigator Observations-**

What does the ice look like?



What does the ice feel like?

What do I observe using the magnet?



What do I observe using  
the magnifying glass?

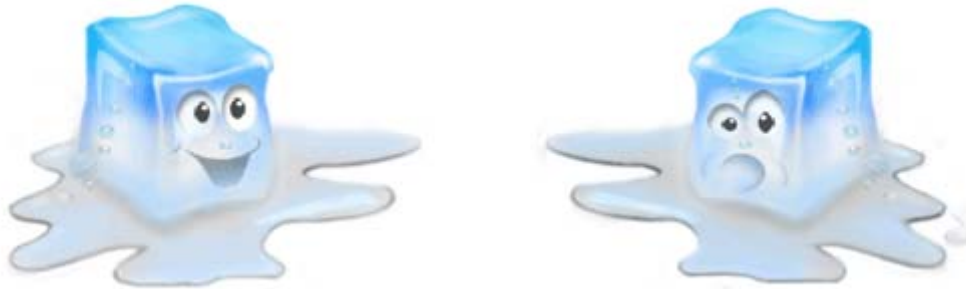
My other observations:

# The Melting Point

## -Investigator Observations-

*Predict!*

What will happen when you place salt on one of the ice cubes?



What happened to the ice cube with salt?

What happened to the ice cube without salt?

Which ice cube melted faster?

Why might this ice cube have melted faster?

# That's a N(ice)Temperature!

## -Investigator Observations -

*Predict!*

What is the melting temperature of ice?

At what temperature does water freeze?

What temperature is the water that melts from the ice?

What is the temperature of the ice and water with the salt?



What happens when the ice and melted water are placed in the cup of ice with salt?

At what temperature does ice melt?

At what temperature does water freeze?

# Amazing Expanding Ice

*Cup that stays in the room*

*Cup that goes into the freezer*



*Mark the level of water in each cup on the picture.*

*Weigh each cup of water.*

*Cup that stays in the room*

*Cup that goes into the freezer*

*Weight*

*Weight*

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*Predict! Draw a line where the water level will be after the cup is placed in the freezer and allowed to freeze!*



# Amazing Expanding Ice

*What Happened?*

*Cup that stayed in the room*

*Cup that went into the freezer*



*Mark the NEW level of water - or ice - in each cup.*

*What do you observe?*

*Weigh each cup of water.*

*Cup that stayed in the room*

*Cup that went into the freezer*

*Weight*

*Weight*

\_\_\_\_\_

\_\_\_\_\_

*What happened when water changed from its liquid state to its solid state (which is called \_\_\_)?*

*What special property of water does this experiment demonstrate?*

# The Tip of the Iceberg

*Draw what you see!*

*Water level before ice was added*

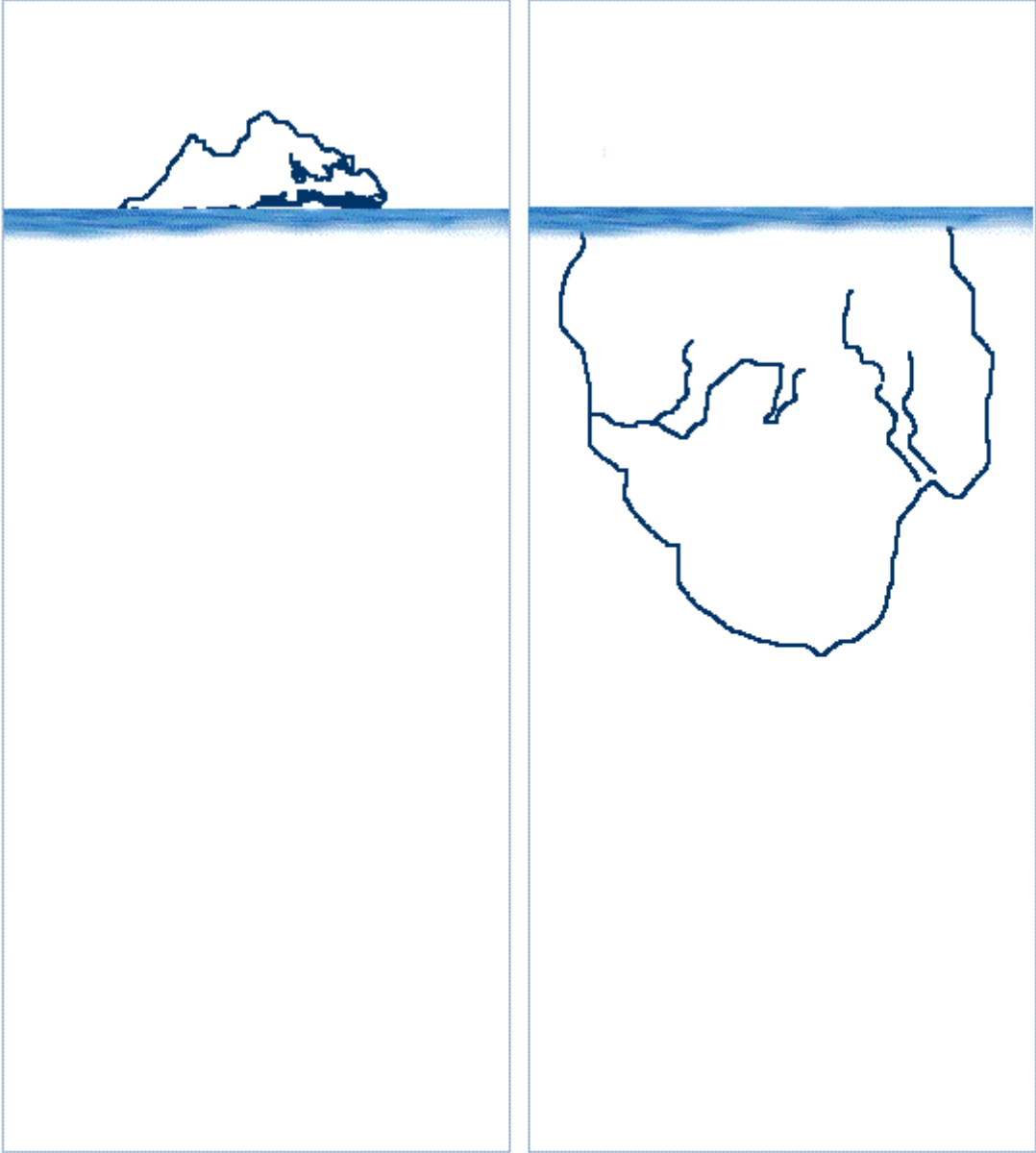


*Water level after ice was added*



*What special property of water was demonstrated by this experiment?*

*Based on what you learned, draw the bottom or top of these icebergs!*



# Flubber Flows

## **-Investigator Observations-**

What does the Flubber look and feel like?

Is Flubber a liquid? Why or why not?

Is Flubber a solid? Why or why not?

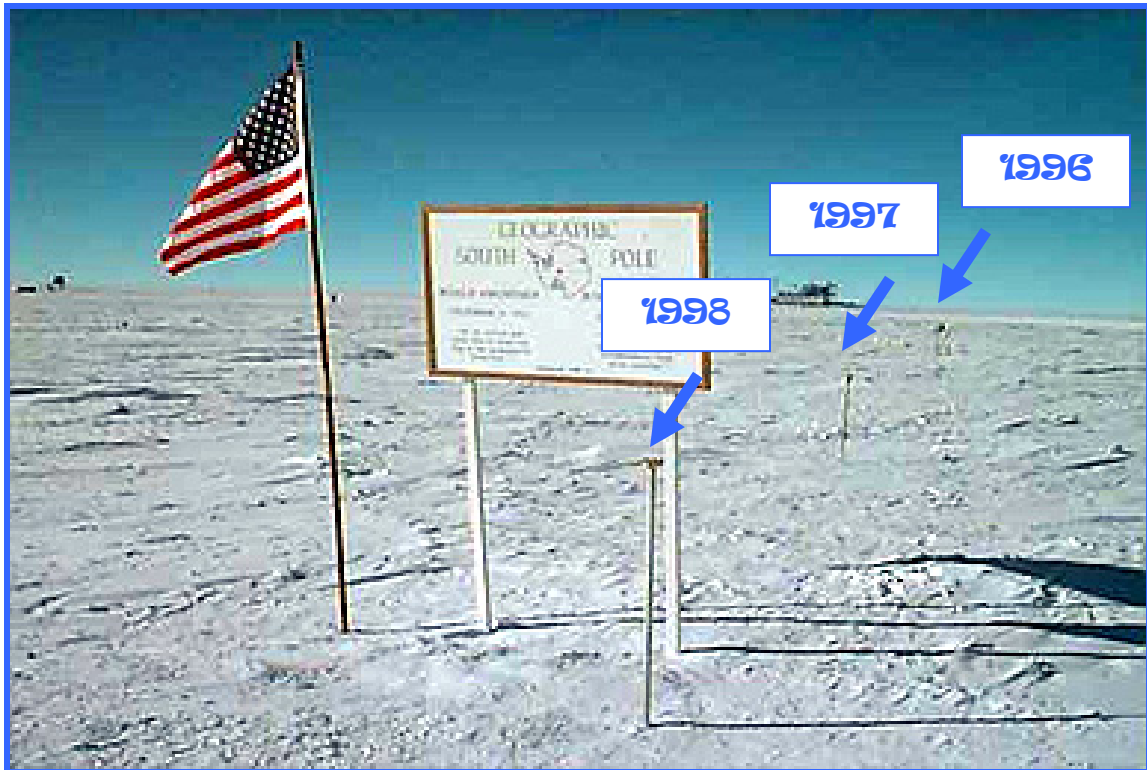
What does Flubber do that a solid does not normally do?

What are the ways is Flubber like a glacier?

Other observations:

# Flubber Flows

Are glaciers made of liquid, solid, or gas?



South Pole, Antarctica.

What are the markers marking?

Why is there a different marker each year?

Do glaciers move and flow?

**What are some things you have discovered about ice?**

**1)**

**2)**

**3)**