Materials and their Properties: My Observation Packet

This Packet Belongs To:

Date:
Activity Sheet 1
Balsa Wood

Sketch it Dry                  Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

____________________________________________________________________

____________________________________________________________________

____________________________________________________________________

Does it float? ____________

Tell how you could use Balsa Wood on your boat:

____________________________________________________________________

____________________________________________________________________

____________________________________________________________________
Activity Sheet 2
Popsicle Stick(s)

Sketch it Dry

Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

Does it float? ____________

Tell how you could use Popsicle Sticks on your boat:

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________
Name:  
Date:  

**Activity Sheet 3**  
**Paper**

Sketch it Dry  
Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Does it float? __________

Tell how you could use Stiff Paper on your boat:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Name: __________________________  Date: __________________________

**Activity Sheet 4**

**Fabric**

Sketch it Dry  Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________

Does it float? __________

Tell how you could use Fabric Scraps on your boat:

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________
Activity Sheet 5
Styrofoam

Sketch it Dry

Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

________________________________________

________________________________________

________________________________________

Does it float? __________

Tell how you could use Styrofoam on your boat:

________________________________________

________________________________________

________________________________________
Name:  

Date:  

Activity Sheet 6
Wire

Sketch it Dry  

Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________

Does it float? _________

Tell how you could use Wire on your boat:

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________
Activity Sheet 7
Ping Pong Ball(s)

Sketch it Dry              Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Does it float? ________

Tell how you could use Ping Pong Balls on your boat:

_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________
Activity Sheet 8
Aluminum Foil

Sketch it Dry

Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

________________________________________________________________________

- Does it float? ______________

Tell how you could use foil on your boat:

________________________________________________________________________

Name: ________________________  Date: ________________________

Activity Sheet 9
Rubber Bands
Sketch it Dry       Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

__________________________________________________________________________

Does it float? ________________

Tell how you could use rubber bands on your boat:

__________________________________________________________________________

Name: __________________________ Date: __________________________

Activity Sheet 10
Clay

Sketch it Dry       Sketch it in the Water
Tell about its properties (size, shape, texture, color, etc.) here:

__________________________________________________________________________________

—

Does it float? ________________

Tell how you could use clay on your boat:

__________________________________________________________________________________

—

Name: ___________________________ Date: ___________________________

Activity Sheet 11
Washers

Sketch it Dry

Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:
Does it float? _______________

Tell how you could use washers on your boat:

________________________________________________

Name: Date:

Activity Sheet 12
Plastic (from plastic bags)

Sketch it Dry Sketch it in the Water

Tell about its properties (size, shape, texture, color, etc.) here:

________________________________________________

Does it float? _______________

Tell how you could use bag plastic on your boat:
Name: ____________________________ Date: ______________________

Activity Sheet 13
Draw your boat design below. Be sure to label everything!

Boat Design

Materials Used:

Name:  Date:

Activity Sheet 14
Building Our Boat

1. Sketch you final construction here:

2. Which materials worked best on your boat? Why?

3. Which materials worked the worst on your boat? Why?

4. How did you use the materials that sink?

Name:               Date:

Activity Sheet 14
Building Our Boat (cont’d)

5. How did you use the materials that float?

6. Did your boat get across the river?

7. If you could change something about your boat what would it be?

8. How did it feel working with your partner?

9. Did you and your partner disagree? How did you work it out?