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:  

_________________________________________________________________  

_________________________________________________________________  

_________________________________________________________________
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:

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________
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:

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________
Name:  Date:

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:

______________________________________________________________________________
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:

______________________________________________________________________________
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:

________________________________________________________________________
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:

________________________________________________________________________
Activity Sheet 12
Plastic (from plastic bags)

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

____________________________________________________________________

Does it float? ______________

Tell how you could use bag plastic on your boat:

____________________________________________________________________
Activity Sheet 13

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

Boat Design

Materials Used:

________________________________________________________

________________________________________________________

________________________________________________________

________________________________________________________
Activity Sheet 14
Building Our Boat

1. Sketch your 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?
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?

________________________________________________________________________

________________________________________________________________________