

Riverside Elementary Professional Academic Center

Arch: Margaret Rast

Teacher: April Cage

Spring 2008 Architecture in Schools

Fridays 2:20 to 3:20 p.m.

January 29, 2008 preliminary thoughts for comment, additions/subtractions, etc.

- Week 1:** Introduction - what an architect does (builder, engineer)
Vocabulary – Plan, section, elevation
Body as structure
 Form architectural shapes (see chart)
 Nature – tree = cantilevered beam, body
 Forces
- Week 2:** Structure, shapes to strength, materials, properties
 Predict strength, flex vs. rigid
 "Stand paper on end"
 "Tearing phonebook in half"
 Creative thinking – how you look at a problem
 How shapes have strength, leverage vs. power
 Measure and draw to scale on graph paper (scale/proportion)
- Week 3:** Structure tested to destruction – various shapes from week before
 Building/structure - Marshmallows and toothpicks

 What should our project be? City of the future?
 Design thought process, groups involved
 (client, builder, architect, regulators, landplanner)
- Week 4:** Field trip to houses under construction or Photos of houses under
 Construction, city designs, etc
 Discuss how the groups involved in the project/city interact
 Assign kids to different groups involved for next week
- Week 5:** Work on project – break into groups (zoning, materials, public)
Week 6: Work on project – what happens when rules change (i.e. bad soil)
Week 7: Work on project – group meeting on progress
Week 8: Work on project – finalize