Hosting a presentation about Architecture OR Architecture Career Day: Elementary Classrooms

- Thank you for downloading this resource!
- This power point is a sample presentation for a combined 3rd and 4th grade class created by a Wyoming AIA-Member Architect.
- The sample presentation (beginning Slide 4) is meant to be presented by an AIA Architect that is local to the community.
- The power point is meant to be used in cooperation by the teacher and architect to customize a presentation that will meet the teachers goals for the students.
PowerPoint Guide

• The next slide indicates an architect’s sample presentation agenda that works well for 3rd and 4th grade, but could easily be adjusted/modified for younger or older students in elementary school.

• An average presentation takes about an hour and 15 minutes, but can be shortened as needed based on the teacher’s needs and available time.

• If possible, the architectural drawing sheet puzzles could be left with the teacher so the students can use these at other times during the year.

• Additional tips:
  • Customize the presentation/agenda each time based on what the teacher would like to see included
  • Adjust presentation based on the interest/reaction of the particular class
  • Try to stay very general and short on each item or the time gets away too fast
  • Take questions at specific times you ask for them to control the class, and maximize time
  • Presentations can be done every 2 years when the class is a combined multi-grade class

Architecture Career Day
Architecture Career Day

Sample Agenda for Architectural Presentation
Approximate time needed: an hour and 15 minutes (+/-)

Teacher: Ms/Mrs ______________ Combined Third and Fourth Grade Class ______________ Elementary School
City ___________________________ Wyoming

Architects
- What do you think architects do? ______________ ??
  - Historically the architect was not only the designer, but many times was the ‘master builder’ or manager/coordinaotor for the construction of the project.
  - We ask a lot of questions! ______________ to determine what the owner needs and wants.
  - We coordinate between the owner/s, contractors and our work.
- What changed? As the built environment became more complicated the architects began to specialize into only design and contractors became the builders.
- How has architecture become specialized? Architects are now the ‘master coordinators’ on projects in addition to being the building designers. We hire and/or work with many other specialized designers who do specific parts of a building design such as:
  - Landscape architects
  - Structural engineers
  - Acoustic engineers
  - Daylighting specialists
  - Interior designers
  - Kitchen specialists, etc. ______________
- What ‘education’ and ‘abilities’ do we use that you might be studying? ______________ ?? How does it relate to architecture? ______________ ??
  - Art/Sculpture – design, plan drawing, renderings
  - Math – structures for beams, columns, floors, roofs, cost estimates
  - English/Writing – communication, letters, specifications, spelling
  - History – use of and styles of buildings, ornamentation, details, methods of construction
  - Science – heat loss/gain in buildings, daylighting, air conditioning, material uses
  - Photography – recording building construction, presentations
- Do architects still draw all their drawings? ______________ ?? In the past yes, now mostly on computer.
- Blue prints vs. white prints? (discuss history and show sample of old blueprints/animation process)
- Specifications – Why would we produce a manual like this? ______________ ?? (have sample to show)
  - Project quality, material types, colors, finishes, etc. ______________
  - We have to be able to read and write to produce these specifications
  - Show a Formica sheet example of what is in the spec (other side of paper)
- Our architectural projects (give a range of types, we don’t just do houses!)
  - Use photographs of design study models and final models
  - Use renderings of projects
  - Use photographs of building exteriors or interiors
  - (do not use more than about 7-8 items showing designs)
  - (do not use any drawings; that comes later)
- Let’s SKETCH! Using a small board or marker boards, design 2 rooms with kids
  - House garage with a man door, window, car, pickup, work counter
  - How do I know what the owner wants in the garage? Ask them!
  - How big to make things? Add dimensions and let them add them up as you total them to get full room width and depth with all items inside
  - Use lots of symbols and hatchings
  - Do same for a kids bedroom with closets, dresser, TV, pillows, etc.

- Let’s try to STUMP the architect! How would I draw different symbols? ______________ ??
  - Kids suggest items such as TV, toilet, urinal, book case, table, people, trees, basketball backstop, etc. If they don’t have ideas, get them started with your own
  - If you don’t know one, make it up like us!
- Drawings set (have sample 24x36 set)
  - Have kids cut and lay out the drawings, ask questions, etc.
  - Describe the most interesting project feature in 3 sentences or less (daylighting, etc)
  - Discuss symbols on 2 or 3 of the sheets
  - Discuss 3 major drawing types we do – plan view, elevation view and section view
- Let’s do a FLOOR PUZZLE! (have 5 sheets from old plan set made into jigsaw puzzles 4×5 pieces or so, use different pages, but need sheets without a lot of open space on them)
  - Kids group into 4 or 5 groups; race to complete puzzles
  - Move around and help them when they are stuck
  - When each set is done they switch puzzles and go again

Teaching aids given to teacher:
- 5 sets of 24x36 paper jigsaw puzzles (architectural plans), cut edges in wavy lines
- Set of common symbols (items we have been sketching over the years)

Handouts to kids:
- “Your architect” fold-out developed by Cola Society of Architects (if available)
- Simple project kitchen design drawing, or other, on letter size paper with symbols
- Old set of 24x36 plans, staples out, allow kids to take 1 or 2 sheets home with the m

Afterthoughts:
- Customize the presentation each time based on what the teacher would like to see included
- Adjust presentation based on the interest/attention of the particular class
- Try to stay very general and short on each item or the time flies away too fast
- Take questions as specific times you ask for them, otherwise they never quit asking and you don’t get things done. It works to tell them we will answer that one “later”
- Presentations can be done every 2 years when the class is a combined multi-grade class
- Use this format as you like, and use the digital files of this agenda to customize all you want
- Good luck!

Wyoming Chapter of the American Institute of Architects
Architecture Career Day

Mr./Mrs./Ms. TEACHER NAME HERE’s Class
ARCHITECT NAME HERE

Date

SCHOOL NAME HERE

Architecture Career Day
What is an Architect?

Design & Sketching

Floor Plan Puzzle

Architecture Career Day
1. A person who engages in the profession of architecture.

2. A person professionally engaged in the design of certain large constructions other than buildings and the like: landscape architect; naval architect.

3. The deviser, maker, or creator of anything.
Working With Drawings-Floor Plans

NEW FIRST FLOOR KITCHEN PLAN

SCALE: 1/4" = 1'-0"

(UNLESS REDUCED)
Working with Drawings-Elevations
Artwork Illustrates Architect’s Design
Models Illustrate Architect’s Design
Design a Garage & Using Symbols

Design Needs
- Room size?
- Number of cars?
- Items to store?
- Type of doors?
- Work bench or shelves?

Architecture Career Day
Start with Walls & Add Cars…
Add Third Wall & Check Sizes…
Add Door, Workbench & Dimensions…
Sketching Symbols

Architecture Career Day
Drawing Puzzle Set
Get started…

Architecture Career Day
Find & Connect Borders...

Architecture Career Day
Fill in the middle…

Architecture Career Day
Finished Puzzle!

Architecture Career Day
Q & A

Architecture Career Day
To Find a Local Architect:

1. Please visit the AIA Wyoming website:
2. Click on the “Find An Architect” tab
3. Click on the “Find An Architect Member” tab
4. Type in your location (or nearest larger city) in the search box

OR

1. Please visit the AIA Wyoming website:
2. Click on the “Find An Architect” tab
3. Click on the “AIA Wyoming Firm Map” tab
4. The map shows which cities have member architectural firms

OR

AIA Wyoming
PO Box 21833
Cheyenne, WY 82003

t) 307.286.5519
e) info@aia-wyoming.org
w) www.aia-wyoming.org