



# dream ARCHITECTURE

2021-2022 OVERVIEW

TOPIC: Draw Your Dream Hospital

GRADE: K – 5

CONTENT: Science, Technology, Art, Math

Become an architect and design your dream hospital. Use prior knowledge, research, and imagination to create a drawing of a safe, interesting, fun, and healthy restaurant.

## CHALLENGE QUESTIONS

- What kind of patients would come?
- How would you treat your patients?
- What does the hospital cafeteria look like?
- Where would the helicopter land on your hospital?
- What do recovery areas look like in your hospital?
- What would you like to experience when you go to the hospital or doctor?
- What would patients see from their room while staying at the hospital?
- Where is the hospital located in your city?

## CRITERIA

- 8 ½x11 OR 11x17 paper
- Mixed media: crayons, markers, pencils, etc.
- MUST have a “Dream Statement” written on the back and completed dreamform
- Complete challenge in allotted time

## IMAGINE/PLAN

- brainstorm possible solutions and ideas
- use technology for research
- engage in inquiry and logical reasoning
- list ideas
- plan design

KINDERGARTEN  
COS

SCIENCE (ENGINEERING  
EMBEDDED)

6. Identify and plan possible solutions conducive to meeting the needs of plants and animals native to Alabama.

TECHNOLOGY

6. Identify uses of technology in daily living.

MATH

18. Correctly name shapes regardless of their orientations or overall size.  
20. Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to

10. Ask questions to obtain information about the purpose of weather forecasts in planning for, preparing for, and responding to severe weather.

describe their similarities, differences, parts, and other attributes.

FIRST GRADE  
COS

SCIENCE (ENGINEERING  
EMBEDDED)

TECHNOLOGY

MATH

6. Identify uses of technology in daily living.

19. Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.  
20. Compose two-dimensional shapes or three-dimensional shapes to create a composite shape and compose new shapes from the composite shape.

SECOND GRADE  
COS

SCIENCE (ENGINEERING  
EMBEDDED)

TECHNOLOGY

MATH

3. Demonstrate and explain how structures made from small pieces can be disassembled and then rearranged to make new and different structures.

6. Identify uses of technology in daily living.

14. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.  
15. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.  
16. Estimate lengths using units of inches, feet, centimeters, and meters.

THIRD GRADE  
COS

SCIENCE (ENGINEERING  
EMBEDDED)

- 4. Apply scientific ideas about magnets to solve a problem through an engineering design project.
- 15. Evaluate a design solution that reduces the impact of a weather-related hazard.

TECHNOLOGY

- 7. Explain the influence of technology on society.

MATH

- 20. Recognize area as an attribute of plane figures, and understand concepts of area measurement.
- 21. Measure areas by counting unit squares.
- 24. Understand that shapes in different categories may share attributes, and that the shared attributes can define a larger category.

FOURTH GRADE  
COS

SCIENCE (ENGINEERING  
EMBEDDED)

- 4. Design, construct, and test a device that changes energy from one form to another.
- 5. Compile information to describe how the use of energy derived from natural renewable and nonrenewable resources affects the environment.

TECHNOLOGY

- 7. Explain the influence of technology on society.

MATH

- 23. Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement.
- 26. Draw points, lines, line segments, rays, angles, and perpendicular and parallel lines. Identify these in two-dimensional figures.

FIFTH GRADE  
COS

SCIENCE (ENGINEERING  
EMBEDDED)

- 3. Examine matter through observations and measurements to identify materials based on their properties.
- 16. Collect and organize scientific ideas that individuals and communities can use to protect

TECHNOLOGY

- 7. Explain the influence of technology on society.

MATH

- 25. Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.
- 26. Classify two-dimensional figures in a hierarchy based on properties.

Earth's natural resources and its environment.

## ADDITIONAL INFORMATION FOR RESEARCH AND EXTENSION

<https://architizer.com/blog/practice/details/perfect-hospital-design/> (“10 Elements of the Perfect Hospital Design”)

<https://perkinswill.com/news/top-10-design-trends-for-hospitals-of-the-future/> (“Top 10 Design Trends for Hospitals of the Future”)

<https://medicalfuturist.com/the-future-of-hospital-design-inside-the-point-of-care/> (“The Future of Hospital Design”)

<https://www.bdcnetwork.com/blog/11-principles-pediatric-healthcare-design>  
 (“11 Principles for Pediatric Healthcare Design”)

<https://pursuit.unimelb.edu.au/articles/designing-for-wellbeing-in-children-s-hospitals> (“Designing for Wellbeing in Children’s Hospital”)

<https://theconversation.com/aquariums-meerkats-and-gaming-screens-how-hospital-design-supports-children-young-people-and-their-families-122198> (“Aquariums, Meerkats, and Gaming Screens: How Hospital Design Supports Children, Young People, and their Families”)

<https://www.buildings.com/articles/33814/11-elements-best-childrens-hospitals-share> (“11 Elements that the Best Children’s Hospitals Share”)

<https://www.eypae.com/publication/2021/beyond-primary-colors-eight-trends-pediatric-healthcare-design> (“Beyond Primary Colors: Eight Trends in Pediatric Healthcare Design”)

<https://www.hdrinc.com/insights/design-strategies-pediatric-spaces> (“Designing Strategies for Pediatric Spaces”)

<https://nashvillemedicalnews.blog/2018/08/13/facilitating-healing-and-hope-through-pediatric-interior-design/> (“Facilitating Healing and Hope through Pediatric Interior Design”)

<https://www.screenflex.com/pediatric-healing-space-the-ultimate-youth-hospital-design/> (“Pediatric Healing Space: The Ultimate Youth Hospital Design”)