**Latoyia Patterson, TMATE**

**Lesson Cycle (Gradual Release of Responsibility)**

**Lesson Title/Topic: Architecture in Pyramids and Everyday life, 5th Grade**

**Standards: CCRS Social Studies Standards II B 3**

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| **Lesson Objectives: The student will develop an understanding of the basic meaning of architecture by developing a blueprint and collaboratively building a cup pyramid and a building a home using sugar cubes.** | **Assessment: Collaborative group effort of completed activities of a cup pyramid and home/school made of sugar cubes.** |
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**Materials:** 100 Papercups, Pictures of Pyramids, blueprint of a pyramid, blueprint of a home

PosterBoard with pictures of pyramids, pictures of famous architecture around the world:

**The Pyramid Arena in `Memphis, TN, Alexander Golod’s Golden section Pyramid in Moscow, Russia and the Louvre Pyramid in Paris France**

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| **The teacher will:** | **The student will:** |
| **Focus: Have you ever seen a blueprint and wondered who designed it? Discuss occupations plans when student grows into adulthood. Do you know what an architect does?** | **Discuss if students have ever seen a blueprint. Discuss what do you want to be when you grow up. Do you know what an architect does?** |
| **Teacher Input (I Do):****Architecture is defined as the art of the science of a building.** **Egyptian civilization is an example of amazing architecture. -Architecture - Pyramids. The Pyramid Age began during the Old Kingdom (2650-2134 B.C.), when the first pyramids were built by King Djoser in the third dynasty. Construction of pyramids continued until 1640 B.C. During the first and second dynasties, Egyptian kings were buried in mastabas.****How long does it take to become an architecture?****Schooling- 5 years of college and an internship to become licensed.****Salary for an architect is averaged at 79,110 a year.****Many modern structures use pyramids examples include: The Pyramid Arena in `Memphis, TN, Alexander Golod’s Golden section Pyramid in Moscow, Russia and the Louvre Pyramid in Paris France** **Blueprints are used as model for builders****Show sample of blueprint** | **The students will discuss with their group, what they know about pyramids and what they think pyramids are composed of****(Limestone, granite, basalt, motar and baked mud bricks).****Students will discuss who built the pyramids. Egyptians are thought to be the first to build pyramids.****Students will discuss what were in the pyramids-pharoahs burial grounds and treasures that the pharaohs would need for their afterlife****Have you ever wondered how did they build these beautiful structures?****Architecture is defined as: the art of the science of a building.** **Egyptian civilization is an example of amazing architecture. -Architecture - Pyramids. The Pyramid Age began during the Old Kingdom (2650-2134 B.C.), when the first pyramids were built by King Djoser in the third dynasty. Construction of pyramids continued until 1640 B.C. During the first and second dynasties, Egyptian kings were buried in mastabas.****How long does it take to become an architecture? 5 years of college and an internship to become licensed.****How much is an architect’s salary? Salary for an architect is averaged at 79,110 a year.** **Can you think of any structures that are made of pyramids?** **The Pyramid Arena in `Memphis, TN, Alexander Golod’s Golden section Pyramid in Moscow, Russia and the Louvre Pyramid in Paris France****Blueprints are used as model for builders****Show sample of blueprint** |
| **Guided Practice (We Do):****Demonstrate how to draw blueprint of the pyramid you will build.** **The teacher will demonstrate how to build a tower with balancing weight.****Point out images of pyramid and for team to replicate it.** **Blueprint of a home will be shown as an example.** | **Students will look at example of pyramid blueprints and decide which pyramid they will attempt to build. Student will sketch out the pyramid that they would like to build.** **Students will then stack pyramid using blueprint. The students will stack cups with equal weight on bottom. The students should attempt to build the highest pyramid possible.** |
| **Independent Practice** | **Students will collaborate with each other** **Draw a blueprint of a home or their school. The students will then use sugar cubes to build a home or their school.**  |
| **Closure:****Pyramids were an important part of the architecture of the ancient world and now our current world. Architects are very important as they design the structures that we frequent. Architecture is a very interesting field and an important part of our lives. A career in this field would be very rewarding.** |  |

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| **Bloom’s Level(s) Research some famous architectural buildings around the world and create a model on poster board using print from magazines or online sources. Please write a summary of the famous building and the architect who designed it.** |  **Technology Integration****Pictures of pyramid designs around the world using the digital board.** |
| **Extension: What are some famous architectural buildings in the city of Dallas?** | **Reteach:** |

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| **Accommodations / Modifications:****Build towers using blocks or sugar cubes****The student will list places 3 different places the pyramids are located with 90% accuracy.** | **References:** [***www.pbs.org/empires/egypt/educators/lesson5.html***](http://www.pbs.org/empires/egypt/educators/lesson5.html) |