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Ideas with IMPACT

STEAM

City Of Letters

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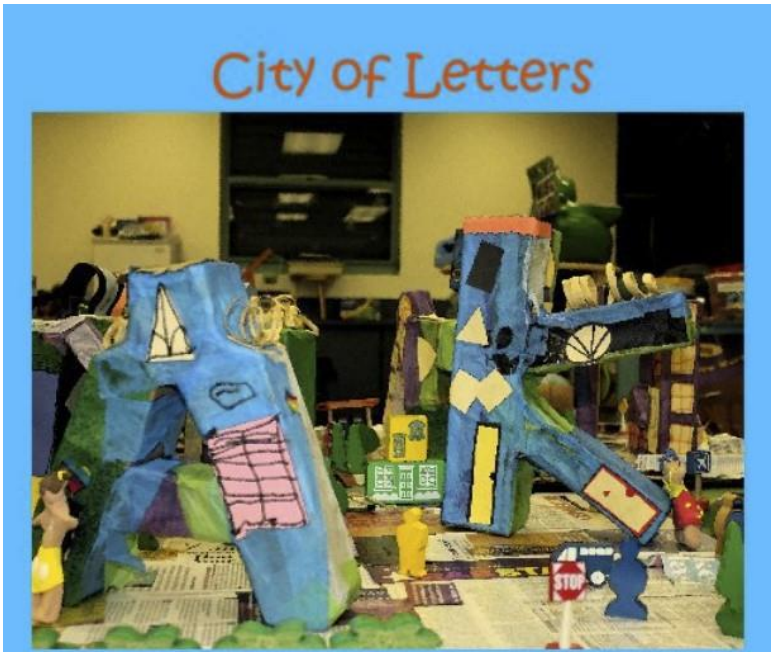

CITY OF LETTERS

STEAM Lesson

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Goals and Objectives:

City of Letters is a STEAM project that also incorporates literacy. It was a project created to embrace different visual arts elements. It has a broad scope in techniques and materials and directly connects with literacy, reading comprehension, science, and math.

Supported by "Iggy Peck, the Architect" by Andrea Beaty, students will create buildings based on their initial letter using boxes. From the blueprint to the 3D artwork, they will explore science, technology, engineering, math, and of course, a lot of art.

Florida State Standards:

VA.2.C.1 : Cognition and reflection are required to appreciate, interpret, and create with artistic intent. (Observe and create 2d and 3d shapes/forms)

VA.2.C.2.2 identifies skillful techniques used in works by peers and others.

(Working in a group to create the streets and spaces of the city.)

VA.2. H.3 Connections among the arts and other disciplines strengthen learning and the ability to transfer knowledge and skills to and from other fields. (Students will connect art and ecology)

SC.2.N.1.2 Compare the observations made by different groups using the same tools. (measurement/ balance/ size)

MA.2.GR.1.1 Identify and draw two-dimensional figures based on their defining attributes. Figures are limited to triangles, rectangles, squares, pentagons, hexagons, and octagons.

MAFS.2.G.1.1 Recognize and draw shapes having specified attributes.

Engineering Demonstrates an understanding of the attributes of design.

Course Outline and Overview:

City of Letters is an exciting and multifaceted STEAM project that provides students with a hands-on experience to explore both 2D and 3D techniques. This project encourages creativity and problem-solving skills while promoting environmental awareness and literacy.

The project starts with students creating a blueprint exploring measurement and proportion, important math skills to comprehend space. Next, they will use recycled boxes to create a 3D letter. They will learn about elements of the arts such as line, shape, form, color, and texture while using techniques such as collage, printmaking, and papier mache to create their artwork.

Throughout the project, students will explore the intersection of art and technology while learning about the importance of recycling and environmental sustainability. Additionally, this project connects with literacy, as students learn about the alphabet and develop their comprehension skills through the book Iggy Peck the Architect "by Andrea Beaty.

The project will culminate in the creation of the City of Letters, a beautiful and unique city made entirely of letters. This final event provides an opportunity for students to showcase their creativity and share their work with others.

Lesson Plan

Week one: **Lesson Length:** 60 minutes

Objective: Students will read the story of Iggy Peck and create a blueprint using graph paper and colored paper cut in little squares'

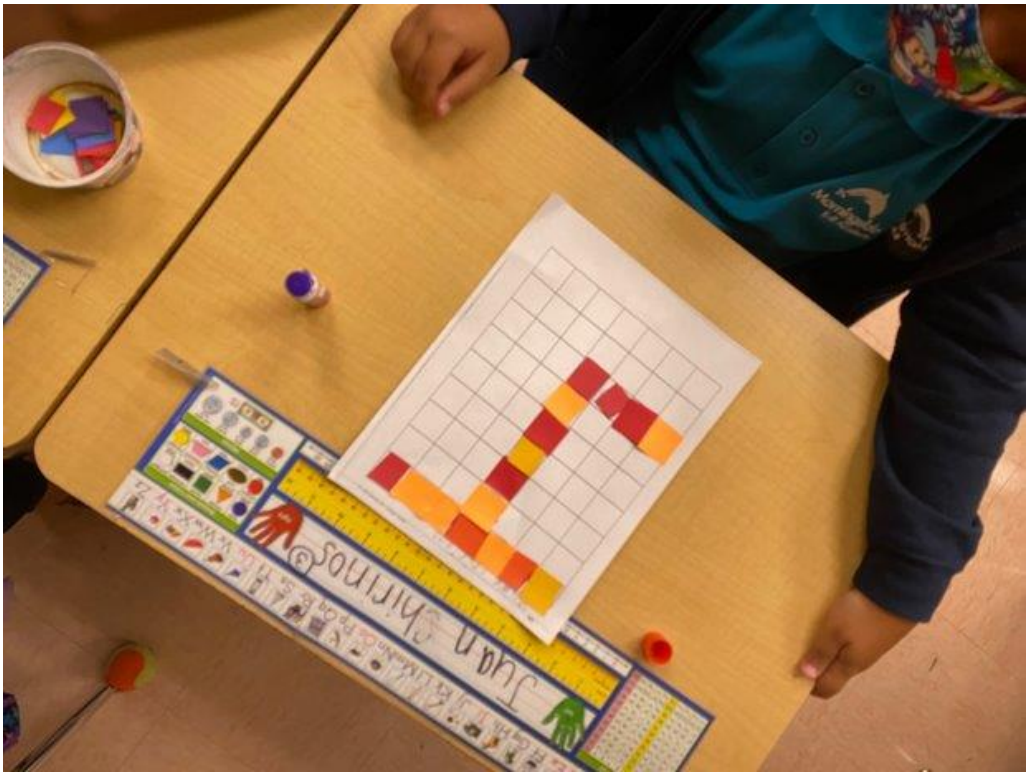
Students will use graph paper to create the shape of their letters.

They will arrange the squares and glue them together.

Keywords: architect, arch, Sphinx, bridge, skyscraper, ruler, graph paper, vertical, horizontal, diagonal, graph paper, blueprint.

Resources: Power Point and Flipgrid (see link on resources)

Element of Art: **Shape**



Week Two: **Lesson Length:** 60 minutes

Students will print the building covering. In this session, students learned about printmaking using tissue paper and textured matrices. They printed using a brayer and printmaking ink.

Keywords: Brayer, printmaking, matrix, contrast.

Elements of art: **Texture and Color**

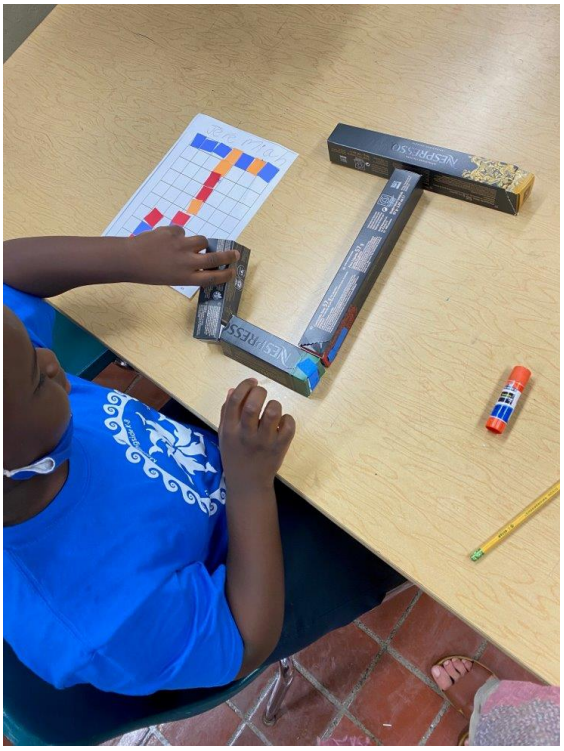
Week Three: **Lesson Length:** 60 minutes

Papier-Mache:

Students built their initial letters using boxes and kraft tape as a papier- mache alternative.

Keywords: 3D, form X shape, balance

Elements of Art: **Form X Shape**



Week Four: **Lesson Length:** 60 minutes

Students will apply the prints to the letter. Students glued the prints made in session 4 to the 3D letters.

Keywords: foam paintbrush, overlapping, printmaking, covering, texture.

Elements of Art: **Texture, Form, Color**

Week Five: **Lesson Length:** 60 minutes

Students will create the streets and spaces for the city (bird view)

Keywords: Bird view, map, neighborhood, floor plant.

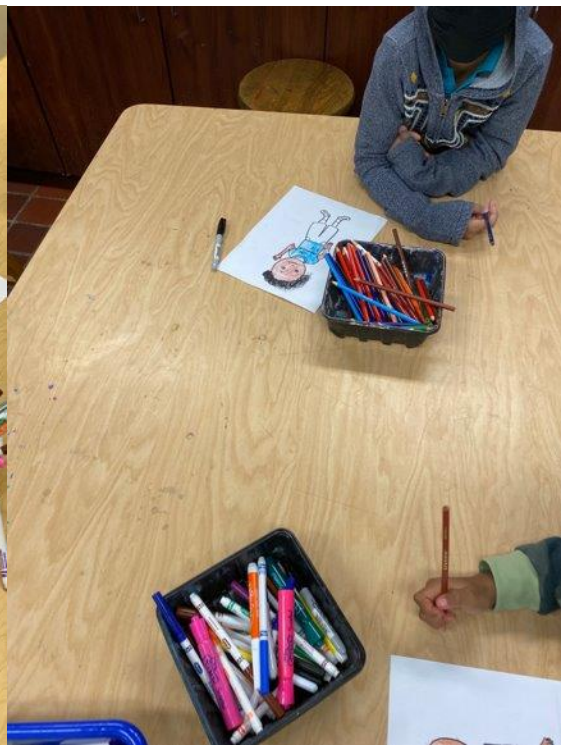
Elements of Art: **Line and shape**

Week Six: **Lesson Length:** 60 minutes

Students will create an avatar for the inauguration poster. Students created their avatars using a handout as a guide, and they added unique details using the tissue paper leftover or markers.

Keywords: Avatar, 3D, 2D, poster, city inauguration

Elements of Art: **Line, shape and texture**



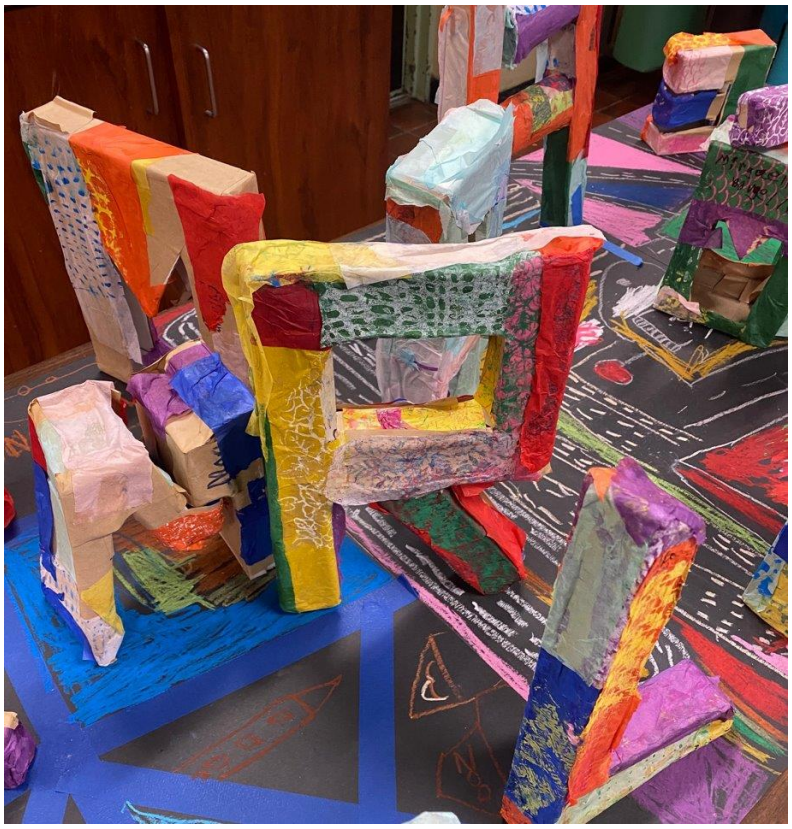
Week Seven: **Lesson Length:** 60 minutes

. Culminating Event:

Students will participate in the City of Letters' inauguration ceremony.

They will choose where to put each letter.

Reflection time: students will reflect about the whole project what they most like and why.



Resource List

Book:

Iggy Peck the Architect, by Andrea Beaty

Flipgrid:

https://flip.com/de550df8

https://flip.com/89bdcce8

Vídeos:

Another "Tape Mache" Experiment - Wet and Stick Tape

Museums:

https://coralgablesmuseum.org/

https://online.archi-depot.com/project/pj_5a67e3ce3e0ad (great examples of architectural model)

https://www.nbm.org/exhibition/play-work-build/

https://www.nbm.org/collections/paper-models/ (Great resource for different paper models)

Material List

The great advantage is that the material cost is low, and some materials acquired can be reused many times.
Materials:

1.Roylco Rubbing Plates, Multi (stamps with textures)

2. Kraft Tape Paper

3.Tissue Paper assorted colors

4. Graph paper

5.Constructed paper assorted colors

6. Black Mountain board or foam board

7. Rollers or Brayers

8. Block Printmaking inks (assorted oof colors)

9.Tray or plastic plate to put the ink

10. Blows to put water (water the tape)

11. Stick Glue

12. Scissors

13.Masking Tape