

AFTER SCHOOL LEARNING

Projects, Activities, & Learning Oh My!

Don't Worry

- We are not giving up after school
- We are providing depth
- We are being intentional with kids & adults
- We are creating original projects that are customized for LAUSD

“John Leichty’s Truck is the epitome of project based learning.”

Project Based Learning - PBL101

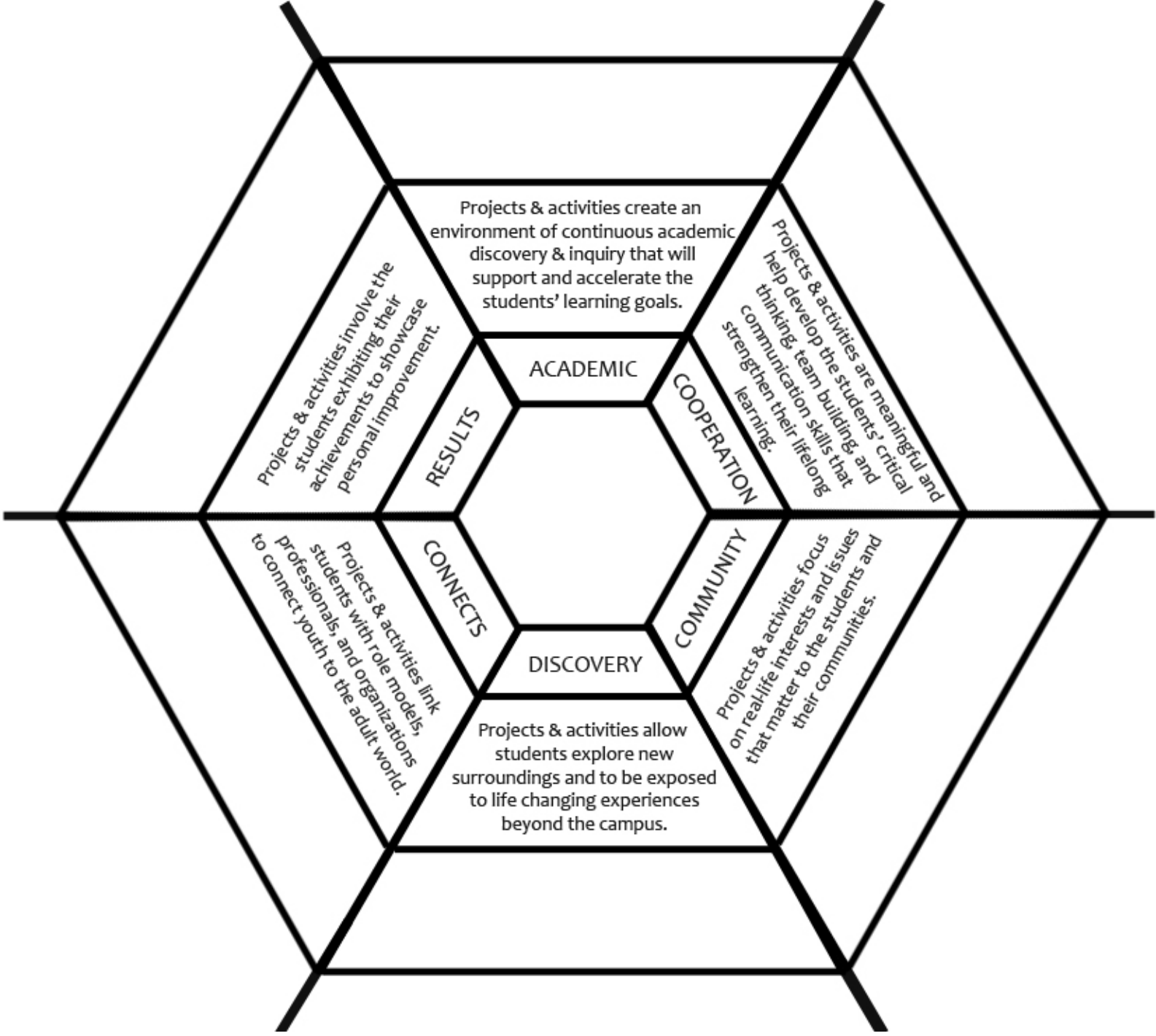
- Students doing, not teachers lecturing
- Adult world application of skills
- Taps student interests and drive
- Open-ended
- Multi-disciplinary
- Teaches resource management

21st Century Learning Skills

- Thinking and problem solving skills
- Information and communication skills
- Interpersonal and self-direction skills

Six Design Principles

- ACADEMIC
- COMMUNITY
- COOPERATION
- DISCOVERY
- CONNECTS
- RESULTS



Academic Layer On The Surface

Project Based
Learning

Activity Based
Learning

ACADEMICS

COMMUNITY

COOPERATION

DISCOVERY

CONNECTS

RESULTS



ACADEMICS



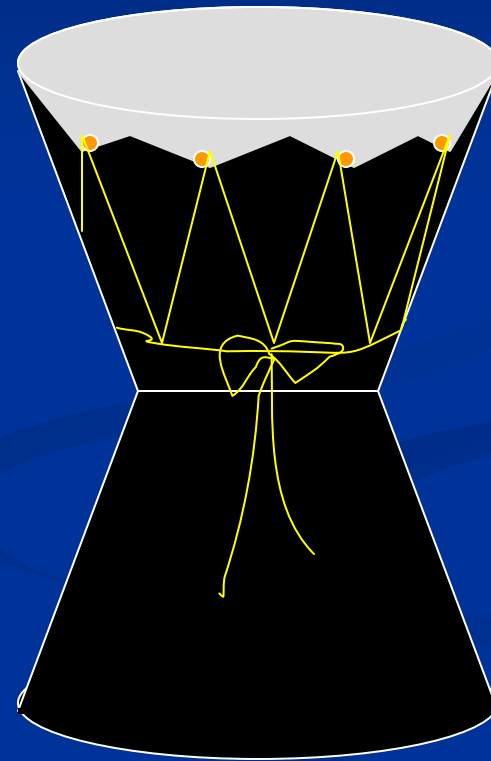
Beat the Odds!

African Drum Project

Project Overview

- Teams of students will create an African Djembe Drum
- They will learn to produce music and...

Beat the Odds!



Vocabulary & Concepts

HIT LIST

- Conic Sections
 - Circles
 - Parabolas
 - Ellipses
 - Hyperbolas
- Physics of Sound
 - Frequency & Wavelength
 - Amplitude
 - Transverse Wave
 - Longitudinal Wave

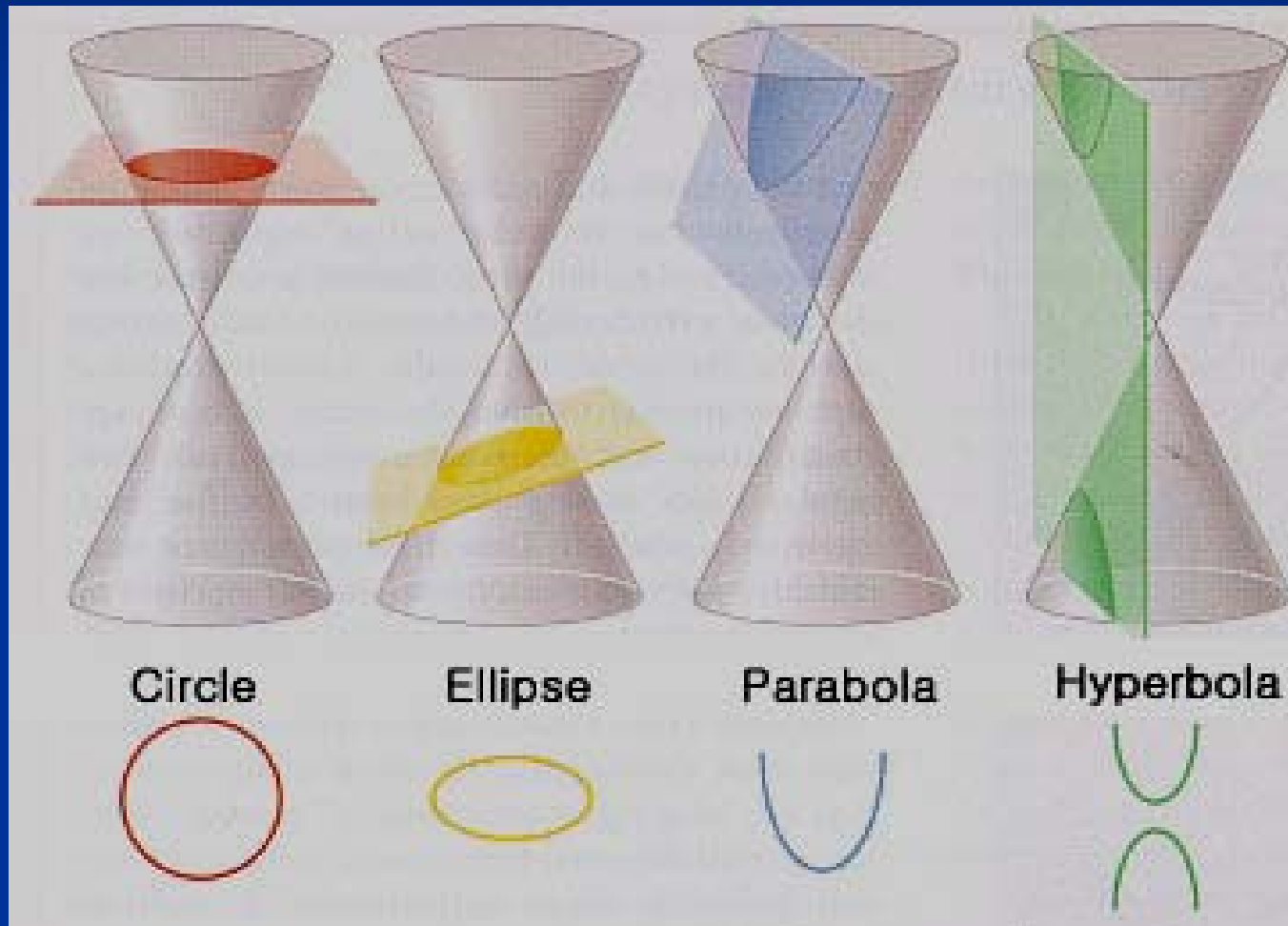
HIT LIST

- Mechanical Wave
- Electromagnetic Wave
- Tension vs. Compression
- Friction
- Djembe Drum
 - History
 - How It Works?

Quick Draw

A set of points, in a plane, that are equidistant from a given point.
What am I?

Conic Sections



Frequency & Wavelength



Amplitude



Transverse Wave



Longitudinal Waves



Mechanical Waves



Electromagnetic Waves



Tension vs. Compression



Friction



History of the Djembe Drum



How It Works



Tools & Materials

Materials

- Waste Baskets
- Sheet of PVC
- Rope
- Grommets
- Duct Tape

Tools

- Scissors
- Coarse File
- Sharpies
- Ruler
- Hammer
- Dremel Tool
- Acrylic Cutter
- Goggles

Safety First

- Goggles must be worn during the cutting of the bottoms (*Possibly Done Beforehand*)
- Goggles must be worn during hammering of Grommets

“It’s all fun and games until someone passes out and loses a tooth.” - Mom

Name _____

Beat the Odds! | Project Sheet

Scope of Work

- Teams of students create an African Djembe Drum
- They will learn to produce music and... Beat the Odds!

Materials & Tools

- Waste Baskets
- Sheet of PVC
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Deliverables

- Master Action Plan
- Drum Art/Rope Design
- Group Jam Session

Requirements

- Master Action Plan must outline all the phases of the project before materials and tools are given out.
- The Drum Art Design must be appropriate.
- **Group Jam Session could be public or private.**

Judging Categories

- Best Sounding
- Best Design
- Best Performance

Safety

- By participating in BTO, the students are agreeing to all the safety issues discussed, when authorized tools are in use.

Notes

Time Management Tool

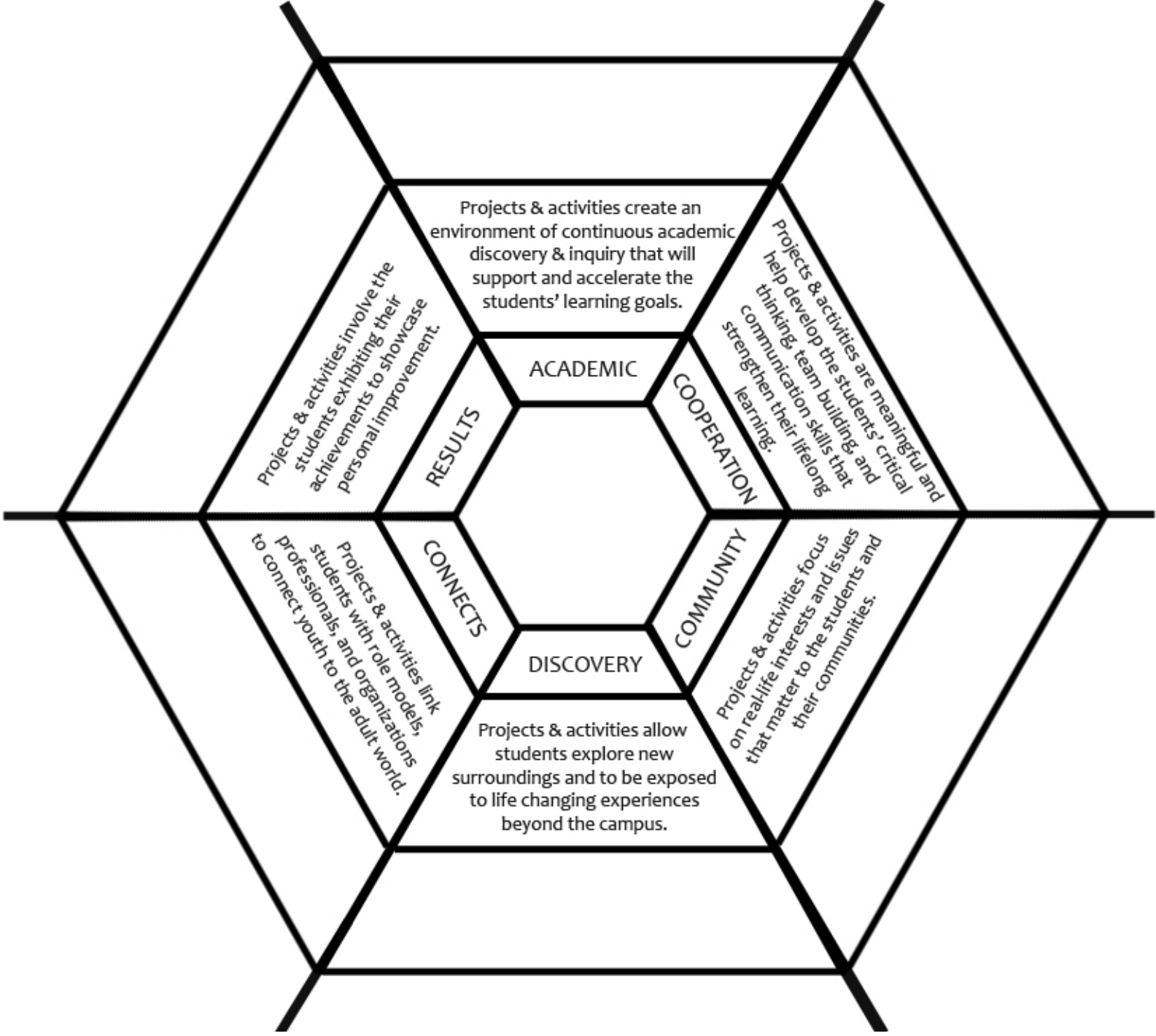
Project To-Do List

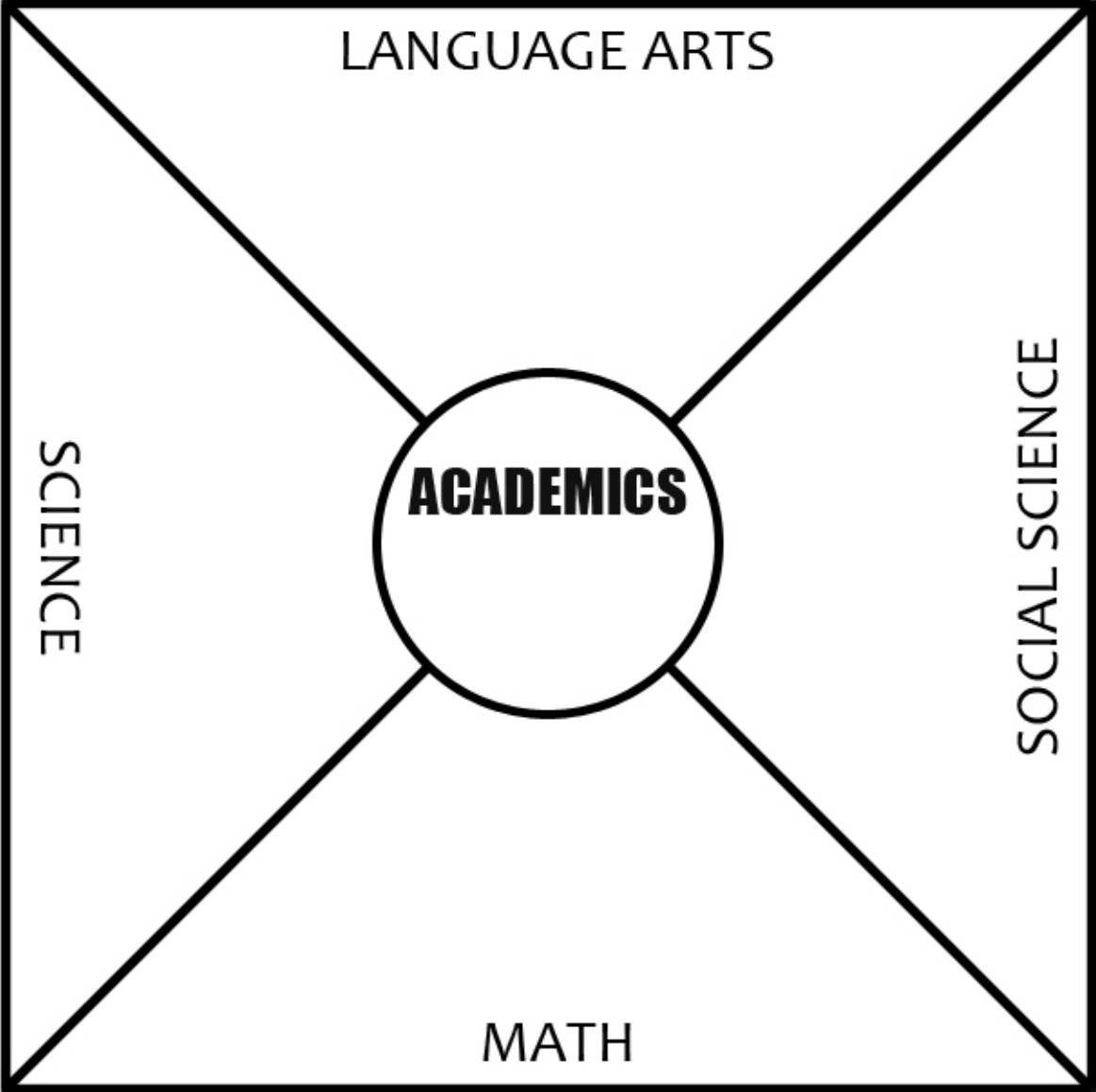
Due Dates

Djembe Styles



Project Manager Group Status Report in **15 minutes**





Questions?

- Click Login on the !Mpact Learning page at www.mpactpeople.com for Online Resources
- Password: support

"The key to success is to use *unlimited* creativity with a *limited* amount of resources."