

LEADING FOR EDUCATIONAL EXCELLENCE



Why are you here?

To face the most import FEAR of all...

Differentiationophobia!



DIFFERENTIATION STRATEGIES: SESSION GOALS

- 1. After completing this session, teachers will have a clear understanding of the basic principals of differentiation.
- 2. Teachers will understand how to construct either a choice board or learning menu activity that supports a learning goal.
- 3. Teachers will begin to construct either a choice board or learning menu for an upcoming lesson or unit of study.



WHAT IS DIFFERENTIATION?

- 1. Pick a column
- 2. Think and write silently for 3 to 5 minutes
- 3. Be ready to share when time is called

Write a definition of differentiation you feel clarifies its key intent, elements and principles.

Explain to a new teacher what differentiation is in terms of what he/she would be doing in the classroom—& why. The definition should help the new teacher develop an image of differentiation in action.

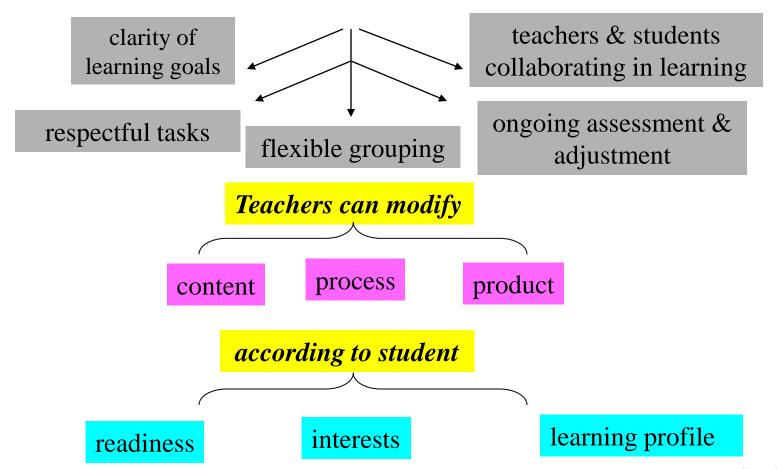
Develop a metaphor, analogy, or visual symbol that you think represents and clarifies what's important to understand about differentiation.



DIFFERENTIATION OF INSTRUCTION

is a teacher's response to learners' needs

Concept Map guided by general principles of differentiation, such as



Carol Tomlinson



- Content
- Process
- Product
- Environment
- Assessment

Curriculum

Presentation

Pacing

Materials



- Content
- Process
- Product
- Environment
- Assessment

Grouping

Complexity

Choice

Studentcreated



- Content
- Process
- Product
- Environment
- Assessment

Modes of expression

Materials

Formats



- Content
- Process
- Product
- Environment
- Assessment

Seating

Grouping

Movement

Atmosphere



- Content
- Process
- Product
- Environment
- Assessment

Rubrics

Grading

Format

Modes of expression



Your Turn...



- With an elbow partner, share some ways you currently differentiate for your students that has been successful for you.
- Did you differentiate the content, process or product? How?
- Did you alter the environment or assessment methods for the students? In what ways?



LEARNING GOALS & ACTIVITIES AND/OR ASSIGNMENTS

Subject	Learning Goal	Activities/Assignments
Science	Students will be able to identify similarities and differences between various planets in the solar system.	*Students will watch the video on the characteristics of the planets, moons and sun. *Take notes and list the characteristics of the planets. *Read pp 24-32 and complete the graphic organizer.



WHAT ARE CHOICE BOARDS & LEARNING MENUS?

- ➤ Activities and assignments that give students a choice as to what they want to do in order to meet the requirements of the class.
- ➤ They can be used for a daily lesson, a week long period, or even a monthly study.
- > They deal with readiness and the interest of the student.



CHOICE BOARDS & LEARNING MENUS

- Empowering students through CHOICE while ensuring adherence to important LEARNING GOALS.
- ➤ Also called Tic-Tac-Toe Boards, Think-Tac-Toe or Learning Menus.
- A type of learning that provides a "menu" of activities-some that all students must do, and some that allow students choices.
- Ensures that each learner focuses on knowledge, understanding and skills designated as essential.



- ➤ Different work, not more or less work
- Easier choice board for struggling students and a more challenging choice board for proficient or advanced students.
- > Equally active, interesting and engaging assignments
- ➤ Same learning goals, requiring the use of key concepts & skills
- Maintains teacher control, basically a learning contract
- Effective assessments at the end of a unit
- Can be tiered for challenge
- > Focus on objectives; not just a variety of tasks



LEARNING MENUS

- Learning menus outline a variety of instructional options targeted toward important learning goals.
- Students are able to select the choices which most appeal to them.
- The teacher directs the menu process, but the student is given control over his/her choice of options, order of completion, etc.



DINNER MENU

Appetizer (Everyone Shares)



Main Menu (Select One)



Side Dishes (Select at Least Two)



Dessert (Optional)



Primary Length **Example**

Primary Poetry Example

Diner Menu—Photosynthesis

Appetizer (Everyone Shares)



Write the chemical equation for photosynthesis

Entrée (Select One)



- Draw a picture that shows what happens during photosynthesis.
- Write two paragraphs about what happens during photosynthesis.
- Create a rap or song that explains what happens during photosynthesis.

Side Dishes (Select at Least Two)



- Define respiration, in writing.
- Compare photosynthesis to respiration using a Venn diagram.
- Write a journal entry from the point of view of a green plant.
- With a partner, create and perform a skit that shows the differences between photosynthesis and respiration.

Dessert (Optional)



Create a test to assess the teacher's knowledge of photosynthesis.

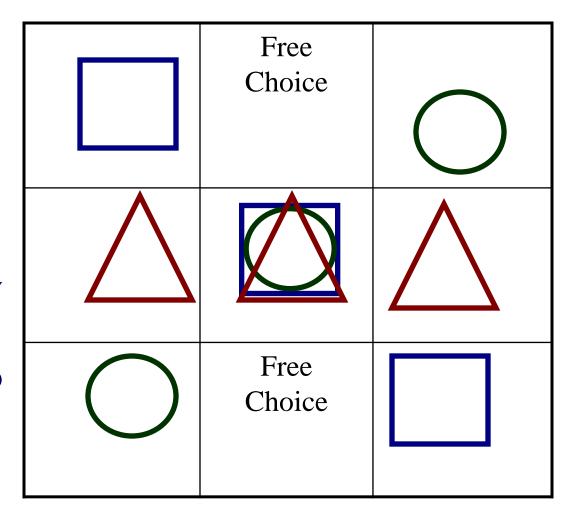




THINK-TAC-TOE

- A simple way to give students choices.
- Activities should be structured so that students must grapple with the key ideas and use the keys skills central to the topic or area of study

- **▶** Bloom Taxonomy
- Multiple Intelligences
- By Readiness
- Choice





3 CHOICES

CHOICE BOARD



6 CHOICES

Choice Board					

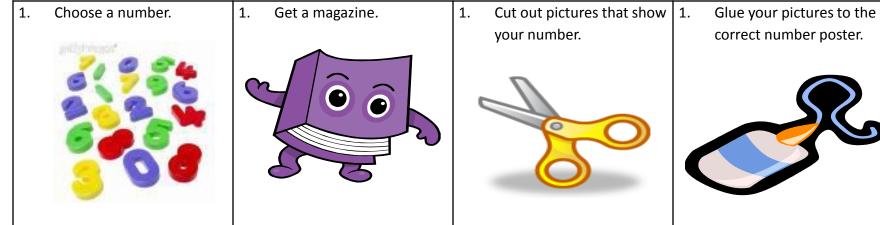


TIC-TACK-TOE CHOICE BOARD

Choice Board				

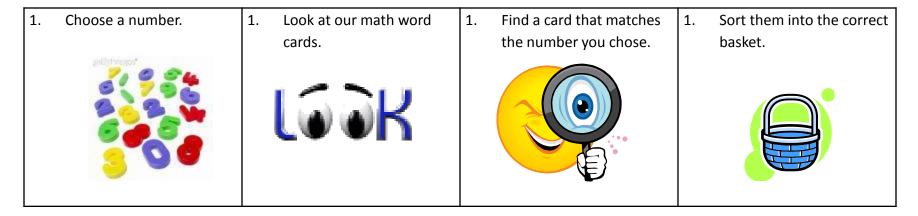


CHOICE BOARD K-MATH





OR





CHOICE BOARD K-READING

Letter Review

Cut pictures from magazines that begin with the letter.



Find words that have that begin with that letter around the room.



Write the letter 10 times on paper.



Read a book and find words that begin with that letter. Write these words down.



Use the magnetic letters to copy the list of words.

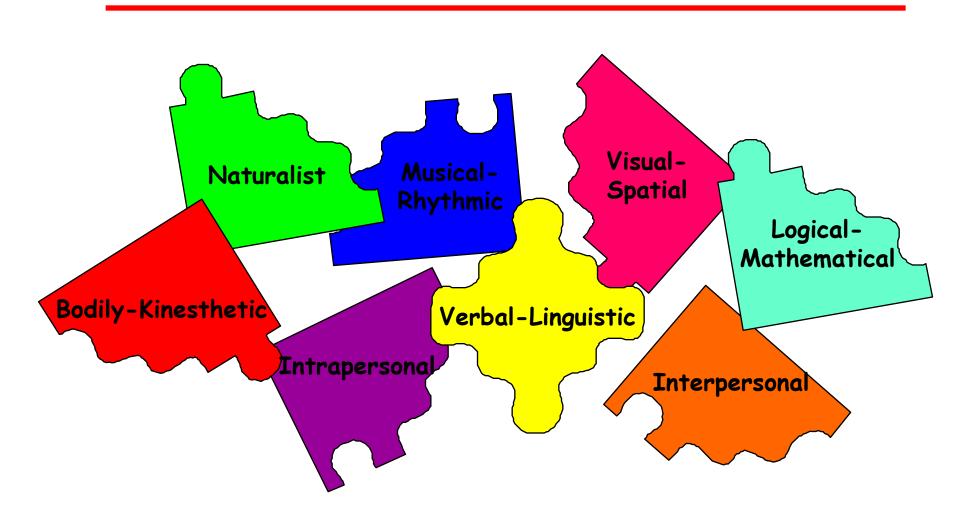


Find a friend that has the letter in their name.





MULTIPLE INTELLIGENCES



PRIMARY PLANT THINK-TAC-TOE

Draw and label the 4 parts of a plant. Use seeds to make	What would it be like to be a seed growing into a flower? Write	Lea plant
your own plant	about this in your	

arn about what ts need to grow.

Present your information to the class. 3. People Smart

picture 1. Art Smart Sort the seeds at the plant center.

journal. 2. Me Smart **READ Eric Carle's** book "The Seed". Draw what you

Read the poem, "The Seed". Act out how a

Make a pattern with the seeds. Count the seeds.

learned about how seeds travel. **5.**

seed grows into a flower. 6. Body Smart

4. Math Smart Using the materials at the science center, plant a seed and watch it grow.

Make a list of words that have to do with plants, seeds and gardening. 8. Word Smart

Using music, show how seeds move. 9. Music Smart

Draw and write about what you see. 7. Nature Smart

Fractions, Decimals, & Percents Tic-Tac-Toe Student Choice Activities

Standards/Objectives: Uses fractions, decimals and percents interchangeably

Compares and orders whole numbers, integers, fractions
and decimals

Use a <u>visual organizer</u> to compare and contrast fractions, decimals and percents.	2. Make a five minute oral report explaining how to convert percentages to fractions and decimals. Use visuals in your presentation.	Convert a <u>recipe</u> that uses fractions into decimals and percents. Display the recipe and <u>cook</u> the food to share with your classmates.
(Visual)	(Verbal)	(Kinesthetic)
4. Create a spreadsheet of a budget with at least ten items. Each item should be in dollar (decimal) amounts. Identify the percentage of the budget spent on each item.	5. Write and perform a poem or rap about fractions, decimals and percents and how they work interchangeably.	Make a <u>chart</u> comparing fractions, decimals and percents.
(Technological)	(Musical/Rhythmic)	(Logical/Mathematical)
7. Research an environmental topic of interest such as endangered species or global warming. Write a report of your findings using fractions, decimals or percents.	8. Write a journal or diary of a day in your life without fractions or decimals. Include at least 10 things that would be different.	9. In a group with at least two other students, discuss real life situations where you use fractions, decimals or percents. Make a list of at least 10 uses and act these out for the class.
(Naturalist)	(Intrapersonal/Reflective)	(Interpersonal/Group)

I/we chose activities # ____, #___, and #____.

Choice Board

Verbal/Linguistic (Word Smart)

Choose an Artist.
Write a presentation on the life of this artist.
Option: Present your presentation to the class.

Logical/Mathematical (Math Smart)

Research the Op Art Period.
Create an Optical Illusion on
paper or using
Adobe Photoshop.
Option: Create a String Art
Project

Intrapersonal (Self Smart)

Choose your favorite artist or art period. Write a self reflection paper supporting why the artist or art period is your favorite. Option: Compare and Contrast two of your favorite artist or art periods.

Interpersonal (People Smart)

With one partner, choose an artist or art period that you both like. Create a collaborate work of art in the style of artist or art period you both choose.

Option: Present your collaborative work of art to the class.

ActivInspire Presentation (Computer Smart)

Create an art history flipchart using ActivInspire. Choose an artist, your favorite work of art they created, and write two paragraphs describing the art and artist.

Option: Present your Flipchart to the class.

Musical/Rhythmic (Music Smart)

Write a song, chant or rap about an artist or art period. Option: Present the song, chat or rap to the class.

Visual/Spatial (Art & Space Smart)

Recreate a piece of art in the style of an artist or art period.

Option: Present your art to the class and explain how your art represents the artist or art period.

Bodily/Kinesthetic (Body Smart)

Research an artist or art period. In partners or small groups, write a play about the artist or art period.

Option: Record your play before or after school or present live to the class.

Naturalist (Nature \$mart)

Choose an artist whose art represents your favorite part of nature. Create a piece of art in the style of this artist. Option: Present your art to the class and describe why you choose this artist.

Julius Caesar Tic-Tac-Toe Student Choice Activities

Standards/Objectives: Applying reading to historical background

Comprehension and interpretation of character development and motivation

Create a map of the Roman Empire during the time of Caesar. Show which areas he conquered and major cities of the ancient world.	Write a <u>poem</u> that reflects Brutus' inner conflict before he decided to join the conspiracy against Caesar.	Take part in a <u>debate</u> over whether the killing of Julius Caesar was justified. Defend your position with facts from historical sources and ideas from the Shakespearean play.
Write and present Caesar's funeral speech as it might have been given by Octavius instead of Antony. Remember that Octavius was a teenager at the time of Caesar's death.	5. (Required activity) Read Shakespe are's play "Julius Caesar" and participate in class discussion. Write a final essay discussing the character motivation of either Caesar or Brutus.	Make a <u>Venn diagram</u> comparing and contrasting the motives of Cassius and Brutus.
7. Create a <u>brochure</u> advertising Rome in 44 BC. Include food, lodging and entertainment. Be historically accurate.	8. Do a <u>PowerPoint</u> <u>presentation</u> summarizing the motivations of five different characters in the play "Julius Caesar."	9. Write the lead story for a Roman newspaper in 44 BC on the day of Caesar's assassination. Include a headline and answer the questions who, what, when, why and how.

I/we chose activities # _____, #_____, and #_____.

LEARNING CONTRACT----THINK-TAC-TOE **ANCIENT CIVILIZATIONS – GRADE 6**

As an ancient mapmaker, you are commissioned to create a map of your land including all natural land forms, a compass rose and a scale. Also find o examples of each land form in a modern civilization.

Imagine that you are an ancient citizen who awakens to discover that all water has evaporated. Explain in detail how this would alter your way of life. Also, do this for the town where you live.

Assume you are persuading others to visit your ancient civilization. Design a descriptive, accurate travel brochure. Include both natural and man-made elements that would attract tourists.

You are an ancient scribe. Write and illustrate a thorough description of a famous character from each time period being studied. Profile yourself also.

Assume the identity of a famous person from the given time period. Create a journal entry reflecting the ideas, values, and components of daily life for that person & you.

You are a famous sculptor. Create a 3D representation of a wellknown leader, god, goddess, or common citizen. Include a museum exhibit card.

Written language is an essential part of everyday life. Your task is part of everyday life. Your task is to create an alphabet. Include a translation into modern English, a written description of the language development a & a 3D artifact of the new language.

Recreate in 3D form a famous work of architecture from your time period. Compare and contrast this piece to one piece of modern day architecture. Find one example of this architecture's presence in modern day society.

Find a way to explain and show the importance of music and the arts to your culture. Also show at least 2 examples with roots in our time.

Human Body Tic-Tac-Toe Student Choice Activities

Standards/Objectives: Identifies major body systems and their functions Names and describes important parts of the body

Create a two minute public service ann ouncement that addresses things people can do to their bodies that have a negative influence on the skeletal or muscular system or both. Make this announce- ment in your class or to the entire school during the time for school wide announce- ments. (Skeletal & Muscular systems)	Make a poster showing five different exercises that address five different muscles. For each exercise include: Name of exercise Name of muscle Illustration of muscle Illustration of exercise Written steps to perform the exercise (Skeletal & Muscular systems)	3. Visit www.medtropolis.org. Click on the Skeletal System section and put together a virtual skeleton successfully. Print out your work. (Skeletal & Muscular systems)
4. Make a graph showing the percentages of red blood cells, white blood cells and platelets in blood. Write an explanation of the function of each. (Circulatory system)	Draw a <u>diagram</u> showing how the circulatory system works. Label all major parts. (Circulatory system)	Research diseases of the circulatory system such as angina, high blood pressure, heart disease, or heart attacks. Do a three minute oral report explaining the causes of these diseases and how they can be prevented. (Circulatory system)
7. Write a <u>paragraph</u> explaining how the digestive and excretory systems are related to one another. Include a diagram.	Write a <u>short story</u> describing life without teeth or gums. Include effects on the digestive and excretory systems.	9. Create a set of ten interview questions about the digestive and excretory systems. Interview a doctor or nurse and write down their answers to your questions.
(Digestive & Excretory systems)	(Digestive & Excretory systems)	(Digestive & Excretory systems)

I/we chose activities # ____, #____, and #____.

Civil Rights Movement Tic-Tac-Toe Student Choice Activities

Standards/Objectives: Understand the importance of the Civil Rights movement in U.S. history
Evaluate ways individuals and groups can change history

Make a <u>time line</u> showing 10 major events in the Civil Rights movement from 1954-1968.	2. Make a <u>bulletin board</u> of 5 important Civil Rights court cases. Include pictures and important details.	3. Choose a significant person in the Civil Rights movement. Find 3 websites about this person. <u>List</u> each website and write a <u>short</u> <u>summary</u> of the information found in each.
(Easiest)	(Easiest)	(Easiest)
4. Choose a significant person in the Civil Rights movement. Prepare a list of 10 questions you would like to ask this person. Do research to find the answers and write them down in interview format. (More Difficult)	5. Develop a detailed chart showing at least 5 major differences in daily life for blacks and whites during the Jim Crow era. Based on this information, write a paragraph highlighting your conclusions and ideas about this era.	6. Create Jeopardy questions about important people and events of the Civil Rights era. Include 5 categories of questions with 5 questions in each category. Write your questions and answers on index cards. (More Difficult)
7. Research Martin Luther King, Jr. Find out how he dealt with and communicated to the American people about the injustices of racial prejudice. Do you think his methods would be effective today? Write a three page position paper explaining your point of view. (Most Difficult)	8. Find out about the Ku Klux Klan, the Niagara Movement, the NAACP and the National Urban League. Write an essay about the effects each had on the civil rights movement and how they affected and responded to each other.	9. Read a fiction book set during the Civil Rights era. Create a <u>Power Point</u> <u>presentation</u> summarizing the book. Include plot, characters, setting and theme. End your presentation by evaluating the impact of the civil rights movement on the characters in the book. (Most Difficult)
	(Most Difficult)	characters in the book. (Most Difficult)

I/we chose activities # ____, #___, and #____.



Complete any three boxes. The products and assignments are due by _____

Complete the Sweet Treat shopping cut and paste activity sheet.

Complete the file folder games on money.

Count the money amounts in each piggy bank and record the amount on the recording sheet.

There are 13 different ways to make 25 cents using a quarter, dimes, nickels, and pennies. Use the table worksheet to record the ways that you can find.

Draw a picture of a toy you want. Tell how much it will cost. Then draw the money to show its cost. Write an explanation to someone telling how you would count the money in the money envelope.

Complete the Money riddles activity.

Play the Shop 'Til You Drop game.
You will turn in your shopping list
after you play this game.

Complete the Choices, Choices
worksheet
OR
In the Garden
worksheet

BIOLOGY

vocabulary.

Write a children's story

obesity. Use graphs &

increase in obesity and

related health issues.

charts to show the

from the perspective of a

	DIOLOGI
Make and present a 3D	Write and recite
model of a particular	about the import
organ from one of the	body systems, in

Write and perform a rap song that teaches the organs and

functions of one of the

human body systems.

Write an essay on the

school lunch program.

lunchroom personnel,

Include student,

and parent's

perspectives.

Create a game for

structures of the

digestive system.

learning the organs and

a poem tance of a nclude appropriate, relevant human body systems.

red blood cell as it travels banana through the through the bone marrow, human digestive system. through the heart, to an extremity, and back. Create a game for learning Create a PowerPoint the organs and structures about the health risks of

of the circulatory system,

including blood flow.

Write a children's story

from the perspective of a



PLANNING FOR RIGOR

Create: Generating new ideas, products, or ways of viewing things

Evaluate: Justifying a decision or course of action

Analyze: Breaking information into parts to explore understandings & relationships

Apply: Using information in another familiar situation

Understand: Explaining ideas or

concepts

Remember: Recalling information

Analyze Evaluate Create Apply Understand Remember

BLOODY SUNDAY – THINK-TAC-TOE

back with violence in Selma?

Draw a picture with a one

Describe (Understanding)

You are the media specialist.

Describe this event as a news

sentence description.

Critique (Evaluating)

Write an editorial for the

Selma Times expressing your

views on the day. Be sure to

say whose perspective you

reporter on TV.

are expressing.

Imagine (Creating)	Compare (Understanding)	Change (Creating)
You are a child in the Selma	Compare this event to	You are a Caucasian
to Montgomery march on	another event in the Civil	Freedom Rider coming from
Bloody Sunday. What are	Rights Movement studied or	Ohio. What would have
you thinking? Write a journal	seen this month. Compose a	happened if you had fought

rap song about the two

Come up with a way to share

something you read in Ch. 7.

Get your idea approved by

Build a model or diorama

7. On a notecard, write a

brief explanation of your

depicting some aspect of Ch.

Create (Creating)

Build (Applying)

the teacher.

scene.

with the class about

events.

entry.

Locate (Remembering)

Find where Ellen Levine

talks about Viola Liuzzo.

Write a journal entry stating

the page and reflecting on

Respond (Understanding)

any person about whom

or her a friendly letter.

Respond to Ellen Levine or

you've read by writing him

her sacrifice.



BLOOM'S TAXONOMY

Students choose activities from the Tic-Tac-Toe board that total 10 points.

- ➤ Make remembering and understanding activities worth 2 points
- ➤ Make applying and analyzing activities worth 5 points.
- ➤ Make evaluating and creating activities worth 8 points.



EXTENSION MENU POINT VALUE GRID – LIVING THINGS 2 Points 2 Points 2 Points 2 Points List 5 living plant

Illustrate an insect.

Assume the identity of

Create journal entries

describing your life.

endangered species

and design a how to

plan to help populate

10 Points

Research an

the species.

a living organism.

Write a riddle about an

Interview a wildlife

specialist at a state

park. Present your

in a novel way.

12 Points

choice.

questions and answers

Develop a 10 minute

lesson on a living

organism of your

species. List 5 living animal species.	plant and illustrate the things it needs to survive.	and list 3 characteristics of an insect.	amphibian and one about an arachnid.
4 Points Explain why a spider is not an insect.	4 Points Compare and contrast two plants using a venn diagram.	4 Points Collage pictures of living things using magazines.	4 Points Write a poem about your favorite living species.
<u>6 Points</u>	<u>6 Points</u>	<u>6 Points</u>	8 Points

Label the parts of a

Make a flip book

tree into paper.

Create a diorama

habitat. Include

illustrating a natural

animals found in that

8 Points

habitat.

illustrating the steps

taken from turning a

Select a living

8 Points

life cycle using a

graphic organizer.

organism. Illustrate its

Diagram the levels of

the rainforest. Write

how your life would

the canopy of the

rainforest.

change if you lived in



BUILD YOUR OWN CHOICE BOARD OR LEARNING MENU

- 1. http://byrdseed.com/differentiator/#
- 2. http://byrdseed.com/respondo/
- 3. http://daretodifferentiate.wikispaces.com/Choice +Boards
- 4. http://dilangley.wikispaces.com/file/view/CONTRACTS+elem+09.pdf
- 5. Choose a content topic.
- 6. Create a choice board of activities, projects, or performances with your diverse student learners in mind.