Lorrie Heagy's Golden Nuggets of Best Teaching Practices

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- 1. All lessons should have these 3 ingredients: Relevance, Movement & Emotion (Head, Hands & Heart).
- 2. Emotion drives attention, and attention drives learning, problem-solving behavior, and just about everything else.
- 3. Brain's Rewards: The brain is "perfectly happy to pursue novelty, curiosity, embrace relevance and bathe in feedback from successes." (Jensen)
- 4. Experience first, intellectualize later. We are motivated by curiosity. If we tell them, this is the way it is without any room for flexible thinking or exploration, there's nothing more they can do with it.
- 5. If possible, let your children sleep on it, to give them a chance to personalize new information.
- 6. Allow your lessons to "breathe." Before students can take in new information, they need to "breathe out" or physically manipulate previous learning so that they can make room to "breathe in" the new.
- 7. Oral language is a precursor to reading and writing skills. Let them speak!
- 8. Integrating the arts is one of the most brain compatible strategies you can use in your teaching.
- 9. Create episodes of learning for your students by using location, emotion, movement and relevance. Remember the Power of Story!
- 10. Remember the Balance of Pattern and Novelty: New Process and Familiar Content OR Familiar Process and New Content

Teaching with the Brain in Mind by Eric Jensen

Key Concepts

Reducing Stress

Getting the Brain's Attention

Intrinsic Motivation

Memory and Recall through Enriched Environment

"Arts education facilitates language development, enhances creativity, boosts reading readiness, helps social development, general intellectual achievement, and fosters positive attitudes towards school." – Norman Weinberger, UC, Irvine

"Emotions are a distillation of learned wisdom." Eric Jensen, Teaching with the Brain in Mind

Factors the Help Reduce Stress:

- Predictability class rituals (song, chants, celebrations, poetry)
- Physical activity games, exercise and drama
- Transition time dance, music, games, group discussions or journal writing
- Storytelling and humor
- Mobilize in face of threat team & sport activities, drama public performance\

Factors that Influence Attention for Learning

- Choices content, timing, work partners, projects, process, environment or resources
- Relevant personal and contextual
- Engaging emotional & physical
- Balance of novelty and ritual

Factors that Intrinsically Motivate

- Eliminate threat uncovering problems, adding transitions
- Goals meaningful context for learning by priming with teasers or stories
- Create appositive climate affirmations, teamwork, rituals, acknowledge success
- Activate and engage positive emotions drama, movement, music, art, games, community service, celebrations
- Provide feedback- projects, group work, checklists, drama, peers & rubrics
- Purposely engaging emotions
- Importance of context patterns (hands-on, experiential, and relevant)
- Relevance (use of personal stories, journaling, discussion, cooperative learning and metaphors.)

Memory and Recall

- Embed emotions in the learning
- Include movement
- Provide meaningful context (make up a story using the key items)
- Wholes taught before parts are recalled better
- Change in location or circumstances
- Keep chunks to a minimum
- Strong activation with rhymes, visualization, mnemonics, music and discussion.

Jensen, E. 1998. *Teaching with the Brain in Mind*. Alexandria, VA: Association for Supervision and Curriculum Development.

Lorrie Heagy's Powerpoint Notes

1. Academic Mindsets Lead to Academic Success

- Purpose
- Belonging
- Confidence/Competence
- Effort

2. Multi-Sensory Learning:

- Multisensory presentations are greater than the sum of their parts.
- Extra information given at the moment of learning makes learning better. Multisensory experiences are more elaborate (Medina, 2010)

3. Attention-Getting Hook:

• Your ability to create a compelling introduction may be the most important single factor in the later success of your mission. In fact, the first 2 minutes is crucial! (Medina, 2010)

4. Vision Trumps Them All:

• If information is presented orally, people remember about 10 percent, tested 72 hours after exposure. That figure goes up to 65 percent if you add a picture. (Medina, 2010).

5. Prime and Provide Feedback

- Provide the Big Picture to establish PURPOSE
- Be sure that the Big Picture is RELEVANT
- To motivate and build success, use LEVELS
- Whenever possible, make goals VISIBLE
- At each step, provide clear FEEDBACK

6. Lessons in Manageable Chunks

• Present information in manageable chunks, balancing familiarity with novelty. Build-in "mini-celebration" to recognize accomplishment at each step.

7. Exercise Boosts Brain Power

• Children and adolescents who are fit allocate more cognitive resources to a task and do so for longer periods of time. (Medina, 2010)

8. Factors that Reduce Stress

- PREDICTABILITY class rituals
- PHYSICAL ACTIVITY singing games, movement
- FLUID TRANSITIONS are connected, purposeful
- STORYTELLING, CHOICE and HUMOR
- TEAM ACTITIVIES Mobilize in face of threat (another reason why team-teaching is so powerful and transformative)

9. Five Ingredients for Getting the Brain's Attention and Keeping it:

- RELEVANCE
- MOVEMENT
- EMOTION
- PATTERN
- NOVELTY
- This is why story is so powerful: it embodies all of them!
- **10.Create Episodes:** Episodic memory has unlimited capacity, forms quickly, is easily updated, requires no practice, is effortless, and is used naturally by everyone. (Jensen, 1998)
 - Experience First, Intellectualize Later
 - Use Location to Make Clear Distinctions between Activities
 - Build Lessons that Breathe In and Out
 - Use Story, Rhythm and Movement Whenever Possible
 - Emotional and Relevant Hook
 - This is why story is so powerful: it embodies all of them!

11.Repeat to Remember

 People usually forget 90 percent of what they learn in a class within 30 days... the majority of this forgetting occurs within the first few hours after class. (Medina, 2010)

12. Discovery and Exploration

• Like an addictive drug, exploration creates the need for more discovery so that more joy can be experienced. It is a straight-up reward system. (Medina, 2010)

13. Remember to Repeat:

 Repeated exposure to information in specifically timed intervals provides the most powerful way to fix memory into the brain. Information is remembered best when it is elaborate, meaningful and contextual. (Medina, 2010)

References

Jensen, E. 1998. <u>Teaching with the Brain in Mind</u>. Alexandria, VA: Association for Supervision and Curriculum Development.

Medina, John. Brain Rules: Twelve Principles for Surviving and Thriving at Work, Home, and School. Seattle: Pear Press, 2010

Summary of Brain-Compatible Learning Strategies

Not Brain-Compatible

Low emotional impact Fragmented, sequential only Concern with being "on task" Standard boring illustrations Suppressing learner energy Lecture, more didactic Emphasis on content only Resigned to the learner's state Mistakes recognized directly Learner association with failure Emphasis on quiet learning Assessment by standardized tests Belief that learning is difficult Create tension & stress to learn Learning as only mental/cognitive Central focused stimuli Extended presenter lecture time Assumes authority from role Finish when time's up Subtle or obvious threats, helplessness Focus on learning in classrooms Institutional boring rituals Infer, threaten, demand Watered down micro-chunk curriculum Insistent focus on conscious learning Minimal open & closing time Delayed indefinite & vague feedback Teach for the test, with stress Sit at desks & limit interactions Abrupt exposure to content Introduce topic, forget it Outcome-based learning Constant use of negatives; "don'ts" Artificial, contrived textbook learning Use of bribes, rewards, gimmicks Starve the brain for stimulation Disciplined, ordered, quiet, repressive Single topic only by teacher choice Standardized "objective" assessment

YES: Brain-Compatible

Appropriately high emotional arousal Global, unified, holistic, thematic Alternating focus-diffusion learning Colorful abundant memory maps Utilizing & expressing energy Multiple intelligences served Emphasis on context, meaning & value Positively conditions the learner & states Mistakes noted indirectly or re-framed Use of alter-ego, other fun characters Often rich with talking, music, activity Feedback quality & quantity is increased Attitude is: it's easy, fun & creative Keeps stress low and enjoyment high Learning also emotive, action, movement Use of significant peripheral stimuli Alternate focus & diffusion activities Creates constant respect & credibility Finish with celebration Remove threats; focus on support Real world, simulations, trips Positive, purposeful rituals Suggest, ask & tell, suggest, ask & tell Year-long real-life thematic curriculum Use of strong non-conscious learning Longer open & close, shorter middle Immediate, positive & dramatic feedback Learn for the joy of learning & real-life Mobility, face each other, partners, groups Purposeful & consistent pre-exposure Multiple exposure & activation at 1-3 days Learning is often a by-product of play Use of totally positive language Using real-life problems in the real world Intrinsic motivation elicited Enriched: music, sights, aromas, movement Expressive, changing, noisy Learner input on topics, directions & depth Multiple brain-based assessment strategies

✓ Self-Check: Teacher's Guidelines

Instructional Strategies
☐ Ability to get attention when appropriate
☐ Purposeful & productive activation of emotions
☐ Management & empowerment of learner states
☐ Strong learner choices offered
☐ Role-modeling joy and love of learning
☐ Balance of novelty, rituals and challenge
☐ Use of natural memory (contextual, motor & sensory)
☐ More immediate & consistent learner feedback
☐ Emphasis on preventative and invisible discipline
Use of a non-hostile non-threatening discipline system
☐ Learning is safe, relevant & interesting
☐ Use of music, video, guest speakers & computers
☐ Appropriate use of nonverbals
☐ Understanding & use of learner-constructed meaning
TI I was to Free to want
The Learning Environment
Provides a secure, safe environment with an absence of threat
 Consistent use of collaborative learning (teams, partners, mixed groupings) Teacher-to-student & (student-to-student) quality, trusting relationships
Room is physically comfortable, learners have choices
Classroom is rich with posters, peripherals; it's real-life and multi-sensory
Greater time flexibility on work projects
Official time recommy on work projects
Use of Curriculum
Use of integrated, multi-disciplinary thematic content
Relies on more relevant, real-life learning
☐ Provides greater learner choice for topics
☐ Teacher invests longer time on fewer, more complex topics
Feedback, Assessment & Evaluation
☐ Emphasis on continuous daily feedback, de-emphasis on testing
☐ Demonstration of content mastery in 4-5 of the seven intelligences
 Learners can make an appropriate defense of their personal biases
☐ Students can show learning in context of the interdisciplinary relationships
☐ Learners demonstrate mastery of the process of learning as well as content
☐ Students give evidence of corresponding mental models learned
 Learners can show personal relevance or local, national or global relevance
☐ Specific "how-to" strategies are learned and demonstrated
☐ Teacher keeps logs or portfolios on student's observable behavior changes
☐ Learners have input & dialogue into the evaluation process

Multiple Intelligences Instructional Techniques and Activities

Verbal-Linguistic "word smart"	Logical-Mathematical "number smart"	Body-Kinesthetic "body smart"	Visual-Spatial "picture smart"
Students who demonstrate a mastery of language and strength in the language arts speaking, writing, reading, listening.	Students who display an aptitude for numbers, detecting patterns, thinking logically, reasoning, and problem solving.	Students who use the body to express their ideas and feelings, and learn best through physical activity games, movement, hands- on tasks, dancing, building	Students who learn best visually and organizing things spatially by creating and manipulating mental images to solve problems.
 Culminating essay that reviews project accomplishment Journals Logs Portfolios of written work Word processor products Newspaper articles Discussions Debates Storytelling Write poem, myth, legend, short play Relate a short play or novel to Give presentation on Lead a class discussion on Create a talk show radio program Write a newsletter, booklet, or dictionary Invent slogans Create an audio tape Conduct an interview Write a letter Use technology to write a letter Use Internet for e-mail Story or poetry contests Buddy reading Dialogue journal School newspaper Use storytelling to explain Conduct a debate on Create a talk show radio program about Conduct an interview of 	Scoring sheets Out-loud problem solving Puzzles Games Outlining Strategizing Translate into mathematical formula Timeline Design and conduct an experiment Make strategy game Make a calendar Interpret data Hypothesize about Create story problem Write a computer program Categorize facts and information Set up a lab project Describe symmetry of Use inductive or deductive reasoning Select/use technology Measure body or room Cut out geometric shapes Use maps for direction Graphing activities Brain teasers Translate a into a mathematical formula Make up syllogisms to demonstrate Describe the patterns of symmetry in Make up analogies to explain Design and conduct an	 Exhibitions - public demonstration of knowledge gained from books, videotapes, experiments, art work, models, or skits Manipulatives Products Simulations Mime Role plays Creative movement Exercise in seats Scavenger hunts Marching Field days Rehearse and perform a play Create a movement or sequence of movements to explain Choreograph a dance Do a reader's theater Invent a board floor or adventure game Make task or puzzle cards Interactive spelling Plan and attend a field trip Use qualities of a physically educated person Devise a scavenger hunt Make a model Design a product Select/use technology Create sequence of movements to explain Build or construct a 	 Pictorials - chart or graph of student progress in study unit Mind maps Timelines Models Photographic essays Videotapes Collages Art work Clusters, graphs Create videotape, slide show, or photo album Design a poster, bulletin board, or mural Visualize Use memory system Create a demonstration piece Develop architectural drawings Make a film or an advertisement Vary color, size, and shape Color-code a process Invent a board or card game Illustrate, draw, color paint, sketch, sculpt, construct Make a diagram Play board games Use overhead projector Use technology Chart, map, cluster, or graph Create slide show, video, or photo album of Create a piece of art that
on	experiment on	Use hands-on materials to demonstrate	demonstratesUse game to demonstrate

Multiple Intelligences Instructional Techniques and Activities

Naturalistic	Musical-Rhythmic	Interpersonal	Intrapersonal
"nature smart"	"music smart"	"people smart"	"self smart"
Students who love the outdoors, animals, plants, field trips, and nature in general and have the ability to identify and classify patterns in nature.	Students who are sensitive to rhythm, pitch, melody, and tone of music and learn through songs, patterns, rhythms, instruments, and musical expression.	Students who are sensitive to other people, noticeably people oriented and outgoing, and learn cooperatively in groups or with a partner.	Students who are especially in touch with their own desires, feelings, moods, motivations, values, and ideas and learn best by reflection or by themselves.
 Create observation notebooks of	 Original songs - write lyrics, compose music Dances that illustrate a concept Explore sounds Explore vibrations Song or musical collage Musical mnemonics Rhythmical patterns Aerobics Parades Attend a musical/concert Indicate the rhythmical patterns Give presentation using musical accompaniment Sing patriotic or historical songs Present a short class musical Make an instrument and demonstrate it Use music to enhance skill building Create musical game Collect and present songs Write a new ending to a song Use musical technology Mathematics or vocabulary rap song Sing a rap or song that explains Indicate the rhythmical patterns in Explain how the music of a song is similar to Make musical instrument Give presentation with 	 Peer review - students decide together on skills and criteria to evaluate Collaborative learning or service projects Teaching others, peer or younger student tutoring Leadership skills Create and implement group rules Classroom government Identify/assume a role Puppet shows Organize or participate in a group Use conflict management strategy Accommodate learning differences Mentoring, tutoring, or apprenticeship programs Culturegrams/Pen pals Multiple perspectives Scavenger hunt teams Simulations Debate teams Help resolve local or global problem Multi-ethnic perspective Use telecommunications International issues Conduct a meeting to address Intentionally use social skills to learn about Participate in a service project Teach someone about Practice giving and 	 Reflective journal track process and learning, daily or weekly goals, learning method, or results Self assessment activities Describe feelings about learning, setting, achieving goals Managing self-directed projects Describe qualities you possess that will help you be successful Create personal analog Explain your personal philosophy Process emotions Describe personal values Use self-directed learning Explain the purpose in studying Explain intuitive hunches Receive feedback Pen pals Select/use technology Dialogue journals Design own models Make personal books Conduct research Individual instruction Describe qualities you possess to help you successfully complete Set and pursue a goal to Describe one of your personal values about Write a journal entry on Assess your own work in
Pond ecology Identify plants/animals	musical accompaniment	receiving feedbackUse technology to	
Identify plants/animals			<u> </u>

KIPP Character Growth Card and Supporting Materials¹

OPTIMISM -- expecting the best in the future and working to achieve it Gets over frustrations and setbacks quickly Believes that effort will improve his or her future

ZEST – approaching life with excitement and energy; feeling alive and activated Actively participates
Shows enthusiasm
Invigorates others

GRIT -- finishing what one starts; completing something despite obstacles; a combination of persistence and resilience. Finishes whatever he or she begins
Tries very hard even after experiencing failure
Works independently with focus

CURIOSITY -- taking an interest in experience and learning new things for its own sake; finding things fascinating Is eager to explore new things
Asks and answers questions to deepen understanding
Actively listens to others

SOCIAL INTELLIGENCE -- being aware of motives and feelings of other people and oneself; including the ability to reason within large and small groups.

Able to find solutions during conflicts with others

Demonstrates respect for feelings of others Knows when and how to include others

GRATITUDE -- being aware of and thankful for opportunities that one has and for good things that happen Recognizes and shows appreciation for others Recognizes and shows appreciation for his/her opportunities

SELF-CONTROL – regulating what one feels and does; being self-disciplined **SELF-CONTROL** – **SCHOOL WORK**

Comes to class prepared
Pays attention and resists distractions
Remembers and follows directions
Gets to work right away rather than procrastinating

SELF-CONTROL – INTERPERSONAL

Remains calm even when criticized or otherwise provoked Allows others to speak without interruption Is polite to adults and peers
Keeps temper in check

¹ These behaviors were developed through a collaborative process that involved remarkable educators from KIPP and Riverdale Country School along with pioneering psychologists at the University of Pennsylvania and University of Michigan. Particular thanks are due to KIPP teachers -- Mitch Brenner, Tom Brunzell, David Levin, Christine Vasconez, and Mike Witter; from Riverdale -- KC Cohen, Karen Fierst, and Dominic Randolph; from University of Pennsylvania – Angela Duckworth and Martin Seligman; from University of Michigan – Chris Peterson.

The 24 Character Strengths²

- 1. Zest: approaching life with excitement and energy; feeling alive and activated
- 2. **Grit:** finishing what one starts; completing something despite obstacles; a combination of persistence and resilience.
- 3. Self-control: regulating what one feels and does; being self-disciplined
- 4. Social intelligence: being aware of motives and feelings of other people and oneself
- 5. **Gratitude:** being aware of and thankful for the good things that happen
- 6. Love: valuing close relationships with others; being close to people
- 7. Hope: expecting the best in the future and working to achieve it
- 8. Humor: liking to laugh; bringing smiles to other people; seeing a light side
- 9. Creativity: coming up with new and productive ways to think about and do things
- 10. Curiosity: taking an interest in experience for its own sake; finding things fascinating
- 11. Open-mindedness: examining things from all sides and not jumping to conclusions
- 12. Love of learning: mastering new skills and topics on one's own or in school
- 13. Wisdom: being able to provide good advice to others
- 14. Bravery: not running from threat, challenge, or pain; speaking up for what's right
- 15. **Integrity:** speaking the truth and presenting oneself sincerely and genuinely
- 16. Kindness: doing favors and good deeds for others; helping them; taking care of them
- 17. Citizenship: working well as a member of a group or team; being loyal to the group
- 18. Fairness: treating all people the same; giving everyone a fair chance
- 19. Leadership: encouraging a group of which one is a valued member to accomplish
- 20. Forgiveness: forgiving those who've done wrong; accepting people's shortcomings
- 21. Modesty: letting one's victories speak for themselves; not seeking the spotlights
- 22. Prudence/Discretion: being careful about one's choices; not taking undue risks
- 23. Appreciation of beauty: noticing and appreciating all kinds of beauty and excellence
- 24. Spirituality: having beliefs about the higher purpose and meaning of the universe

² Peterson, C. and Seligman, M. E. P. (2004). *Character strengths and virtues*. Oxford: Oxford UP.



What is a Character Growth Card?

The CGC is a school-based assessment developed to help middle school teachers provide students with formative feedback on skills that researchers and teachers alike have linked with success. We believe these questions are a useful springboard for teaching and learning activities related to a young person's development of character skills. It is not appropriate for diagnosing or comparing children. We do not yet have evidence that it is a valid tool for evaluating programs or schools.

The skills on this card fall into three major categories: social character, which facilitates harmonious relationships with other people and is exemplified by social intelligence and gratitude; achievement character, sometimes termed performance character, which facilitates the achievement of personal goals and is exemplified by grit; and intellectual character, which facilitates learning and is exemplified by curiosity. Some skills relate to two categories. For example, self-control is both interpersonal and an achievement strength; zest is both interpersonal and a learning strength; and, finally, optimism relates both to achievement and learning.

Why these skills?

The skills and behaviors on this card have been shown either to contribute to success in school and life, or are important ends in themselves in the context of K–12 education.

For each of these skills, there is at least some evidence that they can be cultivated, thus making them an especially important target for families and educators interested in supporting student growth and development.

How should I use this card?

When working with children, adults who use this tool find it helpful to:

- · Discuss the differences and similarities between their scores and a child's self-ratings for each skill area.
- · Return to this card on a quarterly basis as a way to emphasize that over time, these skills can grow and change.
- Discuss whether scores have changed over time and a child's perceptions about the source of this change. Has the child's behavior changed? Or perhaps have the child's personal standards changed? For example, children who become more aware of self-control skills may wish to change their self-control rating after several months of personal observation and reflection, even if their behavior itself has not changed much.
- · Discuss different situations or environments when ratings might be different than the norm. For example, a child might say that he or she is normally a 5 on self control, but when it comes to playing on the baseball team, he or she would give herself a 1 or 2 in this area.

Again, please note that this card should **not** be used to diagnose or compare children, nor to compare schools or programs. Rather please use it to help children focus on their own growth and development in these areas, and as a conversation starter.

CHARACTER GROWTH CARD

	Q3 Q4	Z	SCORE		2 1			transportation of the state of
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1 = Almost Never · 2 = Very Rarely · 3 = Rarely · 4 = Sometimes · 5 = Often · 6 = Very Often · 7 = 8	Almost Always	T III	AVERAGE TEACHER	TEACHER	The second secon	TEACHER	TEACHER	TEACHER
GRIT						-		
Finished whatever s/he began Stuck with a project or activity for more than a few weeks Tried very hard even after experiencing failure Stayed committed to goals Kept working hard even when s/he felt like quitting					THE THE PROPERTY OF THE PROPER			
OPTIMISM								
Believed that effort would improve his/her future When bad things happened, s/he thought about things they could do to make it better next time Stayed motivated, even when things didn't go well Believed that s/he could improve on things they weren't good at	0							
SELF CONTROL (school work)								
Came to class prepared Remembered and followed directions Got to work right away instead of waiting until the last minute Paid attention and resisted distractions								Agraphysis (Agraphysis and Adulta Adulta) and Adulta Adult
SELF CONTROL (interpersonal) Remained calm even when criticized or otherwise provoked Allowed others to speak without interrupting Was polite to adults and peers Kept temper in check								
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SOCIAL INTELLIGENCE Was able to find solutions during conflicts with others Showed that s/he cared about the feelings of others Adapted to different social situations						The state of the s		The state of the s
CURIOSITY						TO THE CONTRACT OF THE CONTRAC	The state and of the other field of the control of	
Was eager to explore new things Asked questions to help s/he learn better Took an active interest in learning								MARKET PROPERTY OF THE PERTY PROPERTY.
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How to Write Vocabulary Rhymes

From Flocabulary: Hip-Hop in the Classroom

http://www.flocabulary.com/teacher_writing_lesson_plan.html

Many students say that memorizing vocabulary words is a struggle, so we designed a simple lesson plan to help students learn, master and retain difficult vocabulary by writing a rhyme. This exercise can be done while a beat is playing

Here are some free beats: http://www.flocabulary.com/instrumentals.html.

Step 1. Choose Your Vocab Word and Pre-teach

In this case, let's use the word **vain** – an SAT-level vocabulary word that students might have to grapple with as early as middle school.

- A. Teach the word and the definition: Vain (adj.) too proud, into oneself
- B. Use the word in a sentence: (e.g.) "Vain people always carry a mirror in their pocket so they can check themselves out."

Step 2. The First Line

The formula:			
1 1-19	(Definition)	(Vocabulary Word),	
	(Context)	(Rhyme).	

We know that our first line will end with **vain**. To be an effective learning tool, the first line also needs to contain the word's definition. Here's a sample first line: "Lisa was so into herself, you know, she was so **vain**."

If you're working with a group of students who have never done this before, it may be a good idea to provide the first line. Once students get used to the exercise, they'll be able to write it on their own.

Step 3: The Rhyming Word Bank

We know that our first line ends with vain, so our next step will be to create a list of words that rhyme with that sound: luckily, many English words do. For this exercise, have students raise their hands and call out words that rhyme. Make a list on the board like this:

Vain - perfect rhymes	
Pain	<u>Vain – slant rhymes</u>
Gain	Day
Brain	Play
Plane	Wage
Vein (homonym!)	Take
Insane	Sale
Disdain	Sayin'
Entertain	Money

As you can see, the slant rhymes get further and further away from the root word, but they're all close enough (pronounced with a little poetic license) to rhyme with vain.

Step 4: Complete the Rhyme

Now that you have a rhyming word bank, your students will have to choose one of the rhyming words and use it to complete the rhyme.

You'll notice in the formula that we ask students to think about context in their second line. This is a key point and can really separate great writers from writers who simply complete the assignment. In this case, writing with good context means that the second line supports the meaning of the vocabulary word you are defining, through action or theme.

For example, here is a second line that doesn't use context:

"Lisa was so into herself, you know, she was so **vain**, She likes rain."

While this is a perfectly fine rhyme, we are relying on the first line's definition as a context clue but not really getting another exposure to the word's meaning.

Here's a better example that uses context.

"Lisa was so into herself, you know, she was so **vain**, She looks in the mirror so much it drives me insane."

Step 5: Perform

Each student should now have at least two lines written. At this point, you can offer students that chance to perform their rhymes for the class (over a beat or a cappella). This is always a fun way to end the lesson and it's always great when you (the teacher) share as well.

Step 6: Repeat

Now that students get the idea, they shouldn't have a problem repeating this process with other vocabulary words that you chose. Provide students with a list of 8 words and have them write an entire verse on a specific topic!

Get your students everything they need to write, perform and record their own educational raps with the Writing Academic Rhymes Package:

http://www.flocabulary.com/warp_order.html

INTEGRATED MOVEMENT LESSON: The Grammar Kingdom Lorrie Heagy, Glacier Valley Music teacher & Librarian

(I learned this technique as part of my Waldorf teacher training)

Each part of speech has the following:

- A character in the kingdom who has a particular role
- A movement
- A symbol
- A color

Each character should be introduced in the order that parts of speech are taught in the curriculum (i.e. noun, verb, adjective, adverb, article, preposition, conjunction).

Here are the characters and their descriptions:

Part of Speech	Character	Movement	Symbol	Color
Noun	King	Crowning Head	Crown	Blue
Verb	Workers	Hammering	Hammer	Red
Adjective	Queen	Smelling a Flower	Flower	Green
Adverb	Foreman	Pointing a finger	Pointed finger	Orange
Article	Herald	Blowing a Trumpet	Trumpet	Yellow
Preposition	Archer	Pulling back the arrow	Arrow	Pink
Conjunction	Draw Bridge	Forming an arch with arm	Bridge	Purple

Their roles or jobs in the kingdom are:

- **King**: goes around naming person, places and things: *rabbit*, *tree*, etc.
- Workers: make the nouns do things: hops, grows
- Queen: describes what the things look, smell, taste, sound and feel like: *soft* rabbit, *white* oak tree
- **Foreman:** tells the workers where, when and how much the things do: rabbit hops *quickly*, oak tree grows *slowly*
- **Herald:** announces when the king arrives (*a, an, the*) for every time you see a herald, you know the king (noun) will surely follow.
- Archer: shows the position of an object. Rabbit hops *over* the fence, white oak grows slowly *in* the forest.
- Conjunction: joins the other members of the kingdom. A rabbit hops and jumps over the fence. The white oak and hemlocks grow slowly in the forest.

Practice sentences visually or kinesthetically:

- Visually have the students draw the corresponding symbol above each word. You can incorporate color if you'd like.
- Kinesthetically, ask the students to stand up and act out each movement as the words are spoken in unison.

Punctuation and Capitalization:

- A capital letter is done by "dressing up" the sentence and pretending like you're putting on a tie. So before the sentence is spoken, have everyone "dress up" by putting on a tie.
- Period is placing your index finger on the palm of the other hand.
- Exclamation point is stamping your foot.
- Question mark is raising both shoulders and hands, looking perplexed. . Check out the video clip for a better view.

Memorize in Minutes

The Times Tables

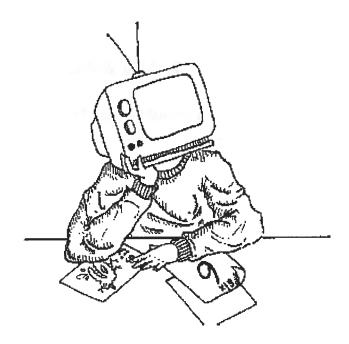
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Illustrated by Jesus Murillo

Krimsten Publishing, Washington

Remembering

With Pictures



Memorize in Minutes: The Times Tables



2 = Shoe

Shoe rhymes with shoe.



3 = Tree

Three rhymes with tree. See the three in the tree.



4 = Door

Four rhymes with door. Look at the picture of the door. Do you see the four?



5 = Hive

Five rhymes with hive.



6 = Chick

Six sounds like chick.



7 = Surfin'

Seven sounds like surfin'. The wave looks like the number seven.



8 = Skate

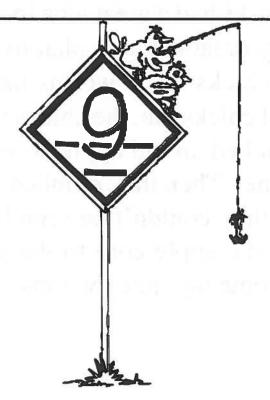
Eight rhymes with skate. The wheels of a skate form an eight when it is standing straight up.



9 = Sign

Nine rhymes with sign. The sign also has the number 9 on it.

 $6 \times 9 = 54$



Chicks x Sign = Fishing with Core

Some chicks had a great idea for catching tasty worms. They dreamed up a plan to go fishing for worms. The chicks knew worms liked apples but were afraid of chicks. So, the chicks found a fishing pole and attached an old apple core to the end of the fishing line. Then they climbed to the top of a stop sign so they couldn't be seen by the worms, and lowered the apple core to the ground. Yum, they caught some big, juicy worms!

THE NERVOUS SYSTEM

(To the tune of "Old Joe Clark") Here's an old-time melody from the Appalachian Mountains.



Forebrain's hypothalamus and thalamus and cerebrum
Hindbrain has medulla and pons and cerebellum
Forebrain is for conscious thought mid- and hind- make brain stem
With the nerves and spinal cord for communication
Chorus

Fibers in the cells are the dendrites and the axons Covered with a myelin sheath help the current pass on Jumping gaps at the synapse dendrite from the axon With nucleus, cell bodies are all part of your neuron Chorus

Doesn't even use the brain the system autonomic Messages to innards are Rather automatic Changes when you're angry are from the sympathetic Changes when you're calming down from parasympathetic Chorus

THE DIGESTIVE SYSTEM

(to the tune of "The Coffee in the Army")

Here's a melody to an old song about the terrors of army food. Some original verses you might hear at summer camp include gems such as:

"Oh, the coffee in the army they say is mighty fine.

It's good for cuts and bruises and tastes like iodine."

"Oh the biscuits in the army they say are mighty fine, One fell off of the table and killed a friend of mine."



Oh, the stomach has a pear shape, the size of your two fists
The walls are made of muscle creating, peristalsis
There's pepsin,
hydrochloric acid, too
Gastric juice makes the chyme
Within five hours' time
In the digestion of fcod

And in the small intestine, there's pancreatic juice
The liver makes the bile, intestine makes more juice
For food to be absorbed and used as fuel
It passes through the villi
Cells it will satisfy
Cells need digestion of food

And in the large intestine, there's feces as it's called The waste then leaves your body, and now you've heard it all The four main parts for total digestion Mouth and small intestine Stomach, large intestine For the digestion of food

Why Do We Do Form Drawing

Through the activity of creating and shaping forms, we form ourselves.

Form Drawing Develops:

- 1. Small motor skills: dexterity of hand and beautiful handwriting.
- 2. The sense of self movement, balance, touch and life.
- 3. Inner visualization.
- 4. Thoughtful Observation.
- 5. Flexibility.
- 6. Harmonious breathing rhythm of forms helps healthy breathing.
- 7. Growth of the healthy intellect through image making.
- 8. A balancing of Temperaments.
- 9. A relationship to space and form.
- 10. The social-moral forces of balance; insight and devotion.

Types of Form Drawing

- 1. Running Forms
- 2. Symmetry Forms
- 3. Geometric Forms
- 4. Metamorphic, Transformation Forms
- 5. Completion Forms
- 6. Negative Space Forms
- 7. Weaving Forms
- 8. Spiral Forms
- 9. Double-running Forms

CLASSROOM ACTIVITIES WHICH STRENGTHEN VISUAL CAPACITIES:

Compiled by Ingun Schneider

- I. Form drawing with a sequence of eye movements along with tracing the form in the air as below 1) 12). The form can be presented as usual with an imagination (and a verse); the teacher may choose to draw the form on the board, then erase it after 1) has been completed or may trace it in the air several times while the students watch closely, or may choose to do both. The children then:
- 1) Trace the form up in the air with the whole writing hand while the eyes watch the hand 1 to 3 times. It is important that the children's eyes move as they closely follow the tracing hand; if the head tends to move as the child looks, have the child hold his/her chin with the non-dominant hand.
- 2) Trace the form in the air with the index finger of the writing hand while the eyes closely watch the finger 1 to 3 times. To encourage the children to look closely at the finger, the teacher can suggest to the younger children that an imaginary 'friend' is sitting on the index finger, the older children can color their index finger nail with a beeswax crayon or tie a red piece of yarn on the tip of the finger, or the children can look at the white of the finger nail.
- 3) Trace the form in the air as in 2) with the eye of the dominant side closely following the finger as in 2) 1 to 3 times; the non-dominant eye can be held closed with the non-dominant hand this holding can also help keep the head still so the eyes move as much as possible.
- 4) Trace the form in the air as in 2) with both eyes closed yet following the tracing finger as if the eyes had 'magic vision' and could see through the closed eyelids 1 to 3 times.
 - 5) Move the form with the eyes as if they could 'draw' the form on the inside of the eyelids.
- 6) Trace the form large (with the thumb, index and long fingers positioned as if holding a pencil) on the cleared-off desk 1 to 3 times.
- 7) Take out the paper and trace the form on the paper as in 6) 1 to 3 times; the teacher can move around the class and make sure everyone is spacing the form properly on the paper.
- 8) Take out the colored pencils, hold the writing hand up in the air with the pencil grasped with the tips of the thumb and index finger next to each other and the long finger underneath the pencil shaft; the teacher can then check that each student is holding the pencil properly. Next, each student places the pencil where the form should begin on the paper and the teacher can verify with a glance across the room that each one is ready to draw the form (or re-position starting points as needed).
- 9) Draw the form on the paper; it is a good idea to use a light color first, then go over this with a darker color, adjusting as needed. Some forms can have a second, third or more parallel line(s) drawn with (a) different color(s) next to the first; this gives the eyes and hand even more opportunity to develop coordination and accuracy.

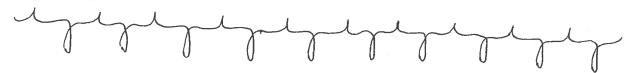
As possible variations, skip one or two of the above steps and substitute one of the next suggestions:

- 10) Have the children trace (1 to 3 times), then draw the form with the foot of the dominant side (usually the same side as the writing hand) on paper on the floor (partners can hold each other's paper until the children are able to hold it by themselves with the opposite foot).
- 11) As a variation to tracing the form with the whole hand (1 above), the children can trace the form with a feather held in the writing hand the eyes watch the feather closely.
- 12) As a variation to looking at the index finger (2 above), the children can watch a bead held between the tips of the index finger and thumb of the writing hand.

The teacher can walk around the classroom and check that the children move their eyes as they follow the form during each step above. The teacher may also have the children trace it on their partners' backs, or have some come forward to walk the form on the floor or to draw it on the board.

FORM DRAWING THROUGH IMAGERY

Fisherman throwing his fishing line into the sea:



Mosquitoes will also be present + fly like this:

Illellellelle

They can change their flight pattern:

lelelelelelelelel

lemelemelem or spelegselegsele

(MIRROR FORM)

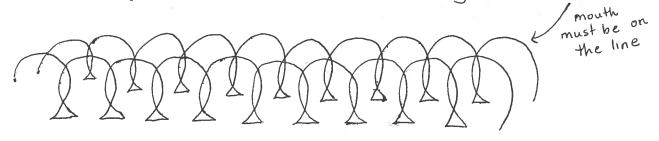
Cats on shore waiting to take the fish off the boat:

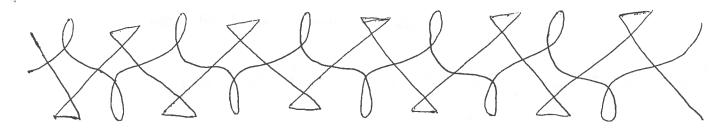
and foxes:

and chickens:

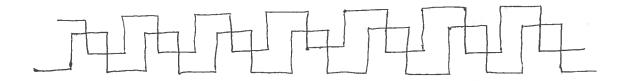


fishermen bring their fish in on a nice long line (+ minnows too):

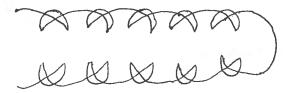




(DOUBLE RUNNING FORMS)



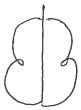
cats + bats - mirrored form



Symmetry forms:

Always do the vertical symmetry (thinking plane) before horizontal.

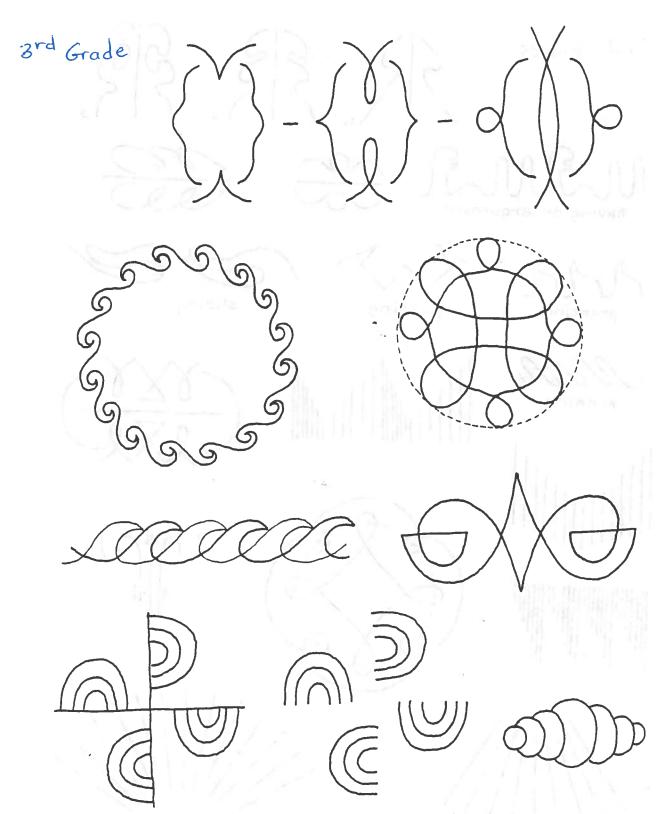




Geometric form:

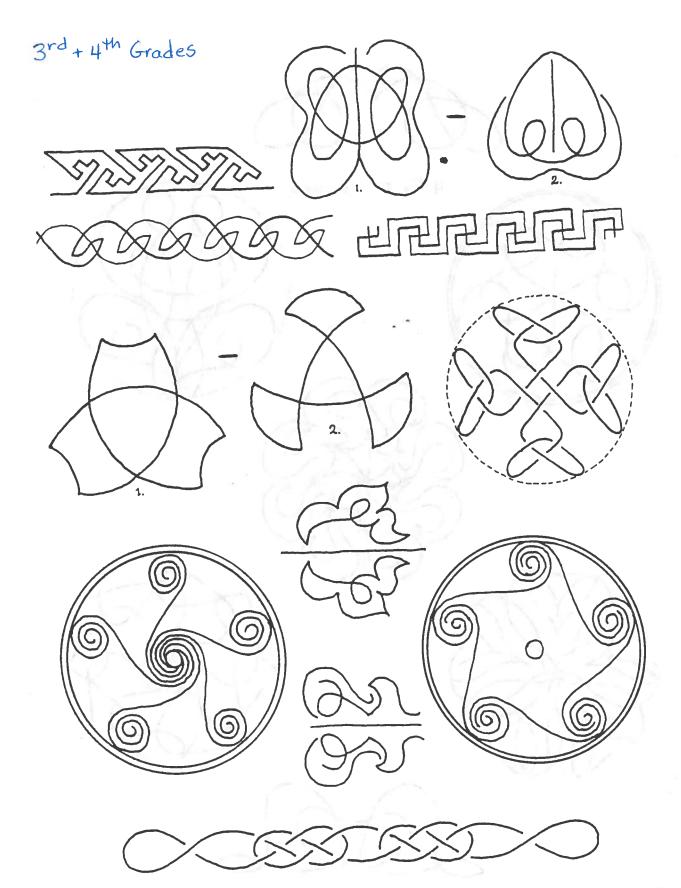
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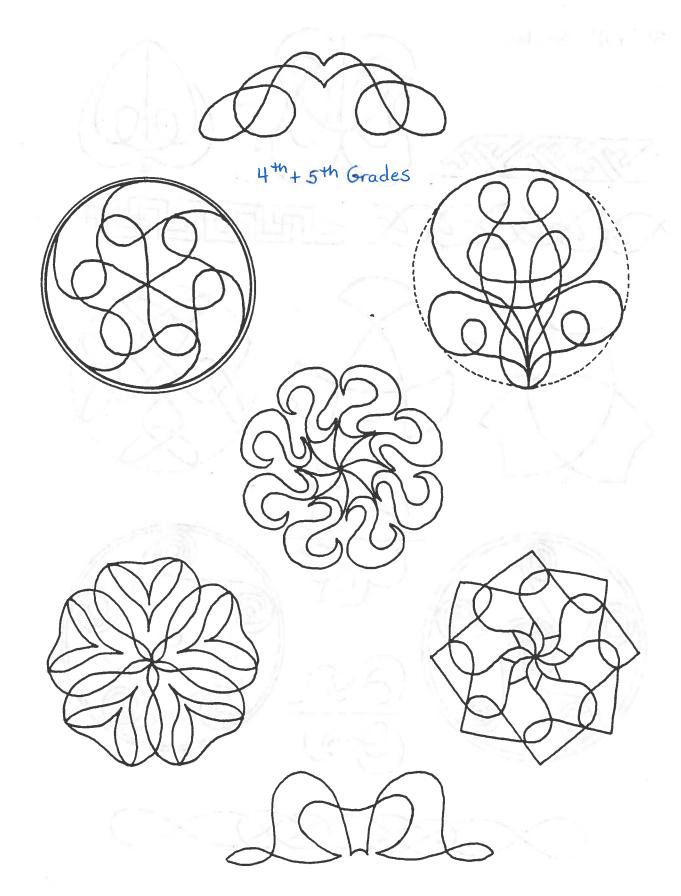
1st + and Grades: having an argument sliding fighting prancing

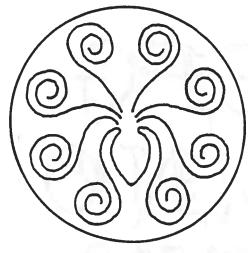


draw exercise first with cross.

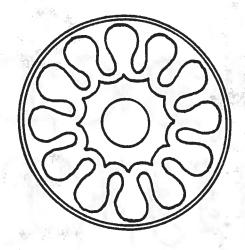
then same exercise without cross.



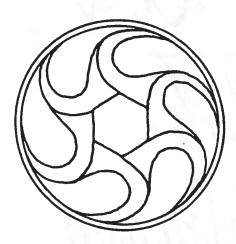




16th cent B.C. Mycenze



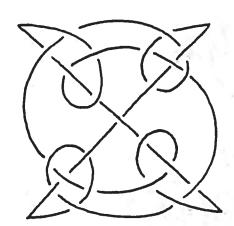
Early Greek Design



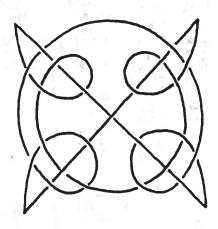
Gothic Rose Window



Early Greek Shield



5th Century Lombard



Historical Designs

Amoret

ABCDEFG HIJKLMICO PORSTUV WICH abcdefghijklmnop grstuvwxyz

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