

ART INTEGRATION IN EVERYDAY CLASSROOM

By Gaurav Juyal
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Founding-Faculty at Institute of Design, JKLU

About Gaurav Juyal

National Institute of Design

Mentored over 10,000 students
across SAARC nations

Walt Disney's **Art Attack**

International and Rural School Experience

Founding-Faculty at the Institute
of Design, JKLU

Co-founder: Thoughts and Bolts

Building Curriculum & Academic Institutions

Develop Learning Culture

Why

CHILDREN ?



First Citizens of the world

- Well-being : **Future state**
- Creating **right conditions**
- School education is **crucial**
- Children **absorb their surroundings**
- The personality, traits are built when **young**



Meghalaya : 2013

The four-temperament human psychology:

Adopted by Greek physician [Hippocrates](#) (c. 460 – c. 370 BC)

The Commanding Choleric

Confident, determined, fast-paced, task-oriented, performance-driven extroverts, enjoy challenges and decision-making, strong-willed

May show tantrums and fiery arguments.

Remember that these powerful individuals will become wonderfully influential people if shaped correctly.

The Peaceful Phlegmatic

Slow-paced introvert, people-oriented, docile nature. relaxed and patient.

Go-with-the-flow attitude makes them great team players

Need peaceful, tranquil environments and, therefore, conflict and pressure upset them. Could seem passive, seldom try new things, do not show much emotion, vulnerable to peer pressure.

Teach them to verbalise their feelings. Ensure they feel safe after a conflict and attempt to maintain their peace.

Temperaments in Children

The Spirited Sanguine

They like people and pleasure, happy individuals, easy-going, flexible, fun-loving, sociable, charming,

Struggle with consistency, commitment and task completion, impulsive and somewhat ego-centric, fear is to be unpopular. Boring tasks and routines get them down. Require ample space and freedom

Teach them impulse-control, responsibility, listening skills, task completion

The Meticulous Melancholic

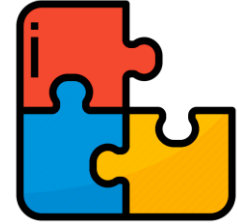
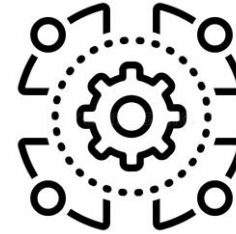
Introverted, task-oriented children who are quiet, serious perfectionists and set really high standards for themselves and often perform well.

Good at planning, observing and problem-solving. Facts, rules and doing things right matter a great deal.

Very cautious, slow-paced and resistant to change. Seldom operate on the forefront. Melancholic kids are susceptible to depressive moods.

Treat them with fairness and consistency.

Why EDUCATION ?



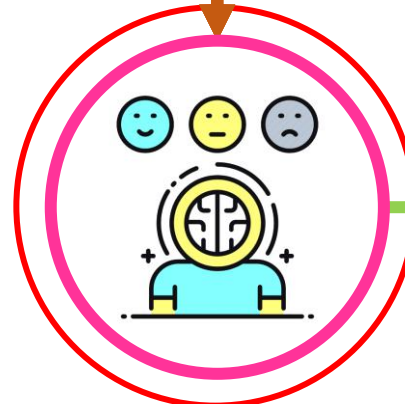
Know and
Understand

Find
Connections

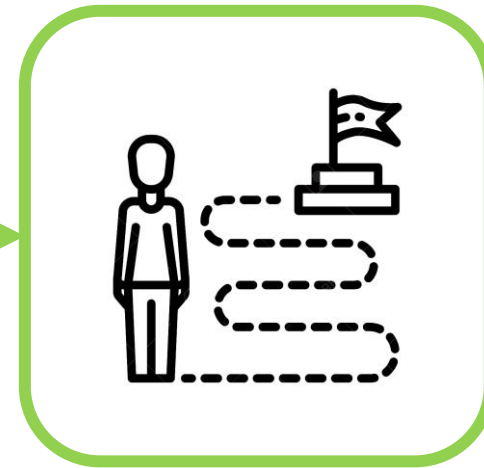
Engage

Build

Education
Enables



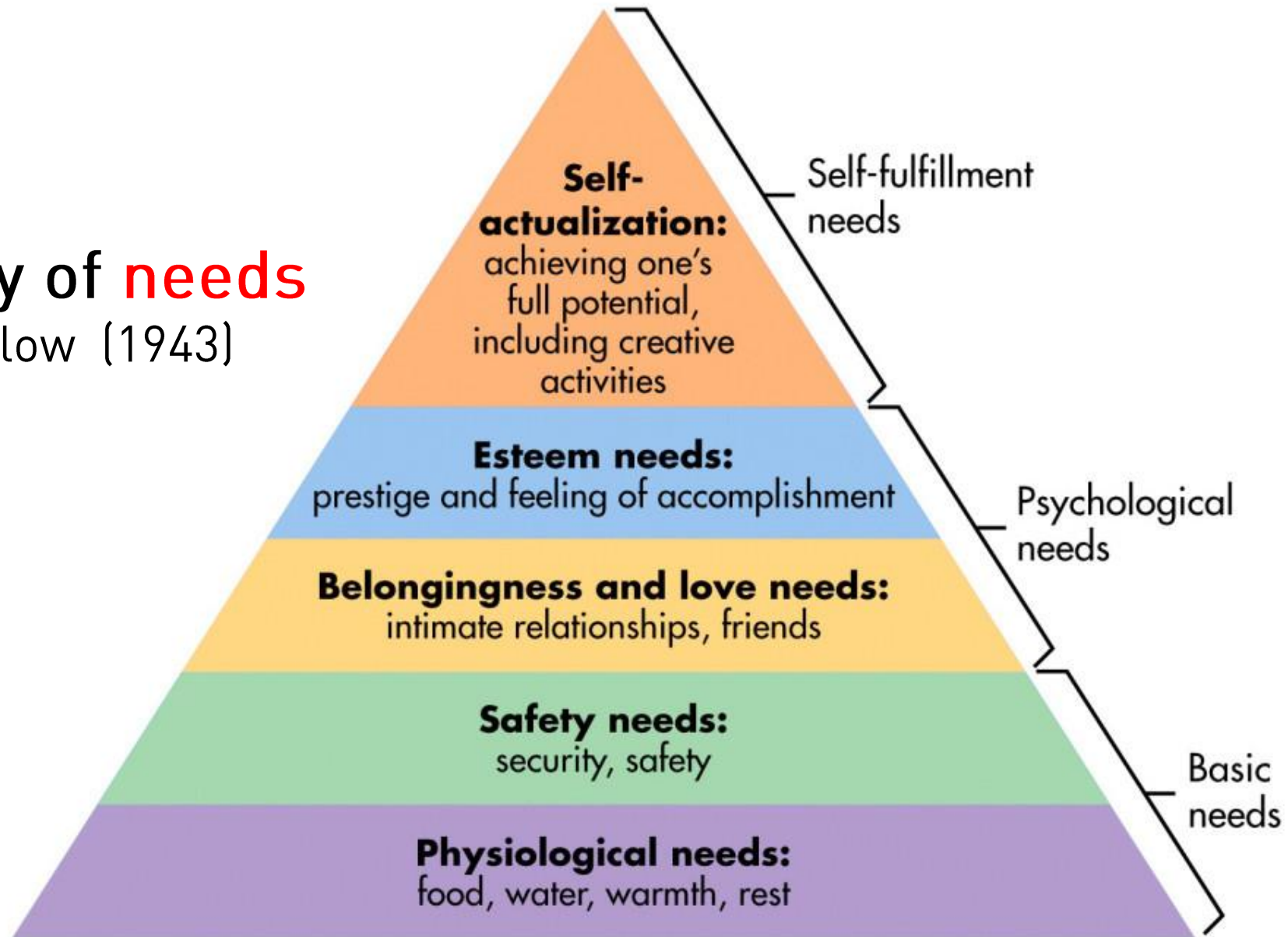
EQ: Understand
and Resolve self



ACHIEVE

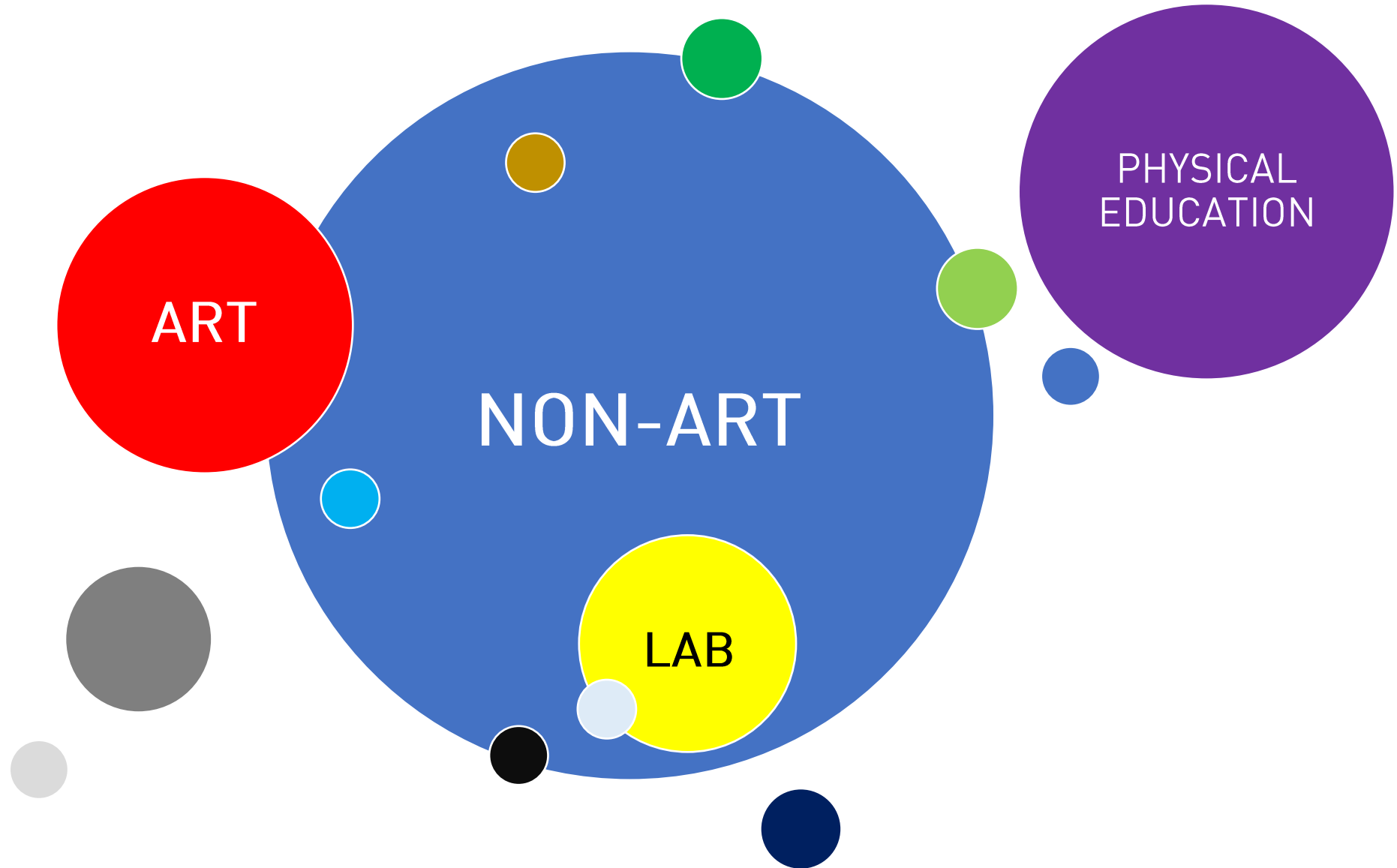
Maslow's hierarchy of **needs**

By Abraham Harold Maslow (1943)



Teaching is noble profession.
Just like doctors save lives we nurture them.

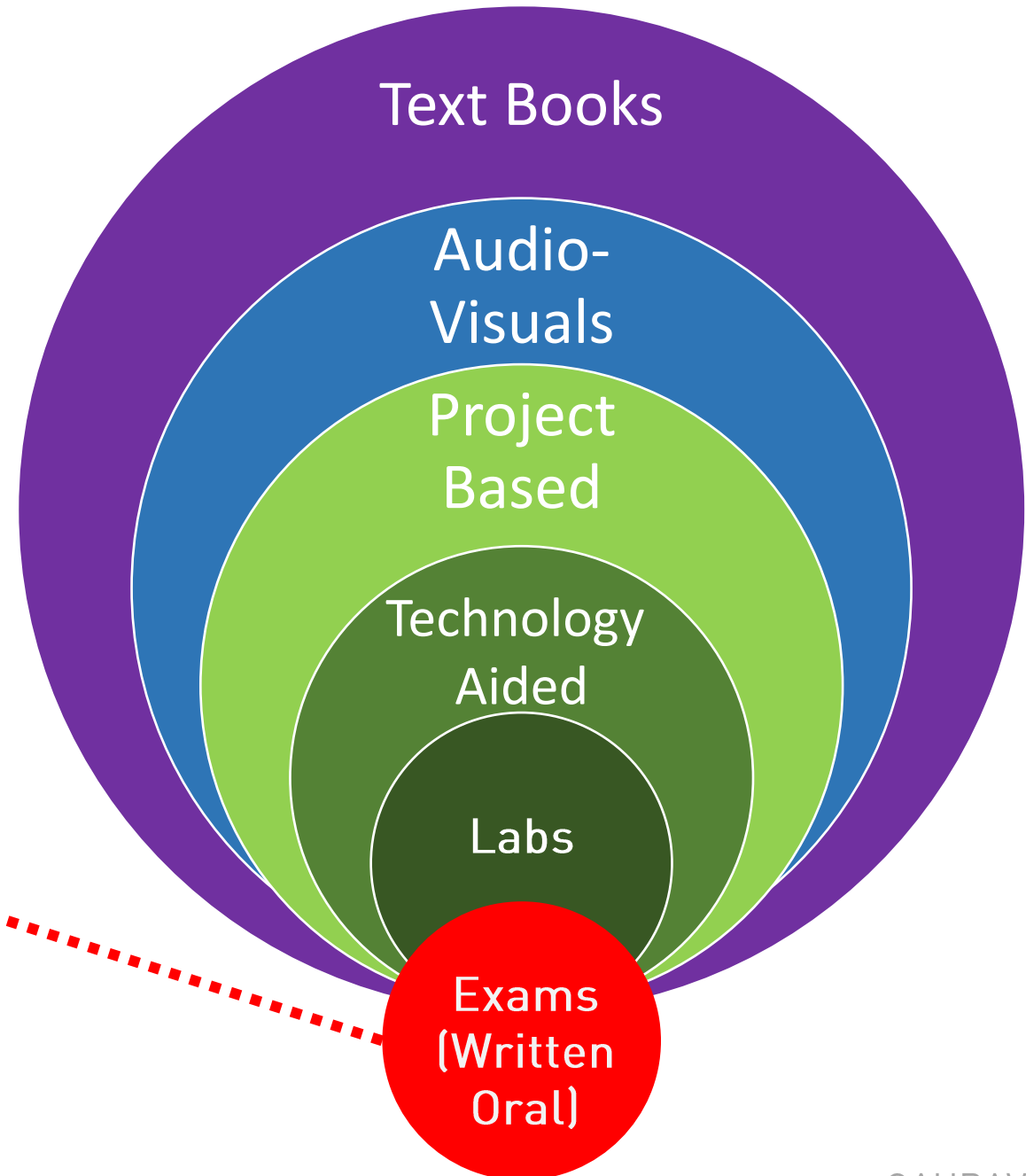
COMMON EDUCATION MODEL

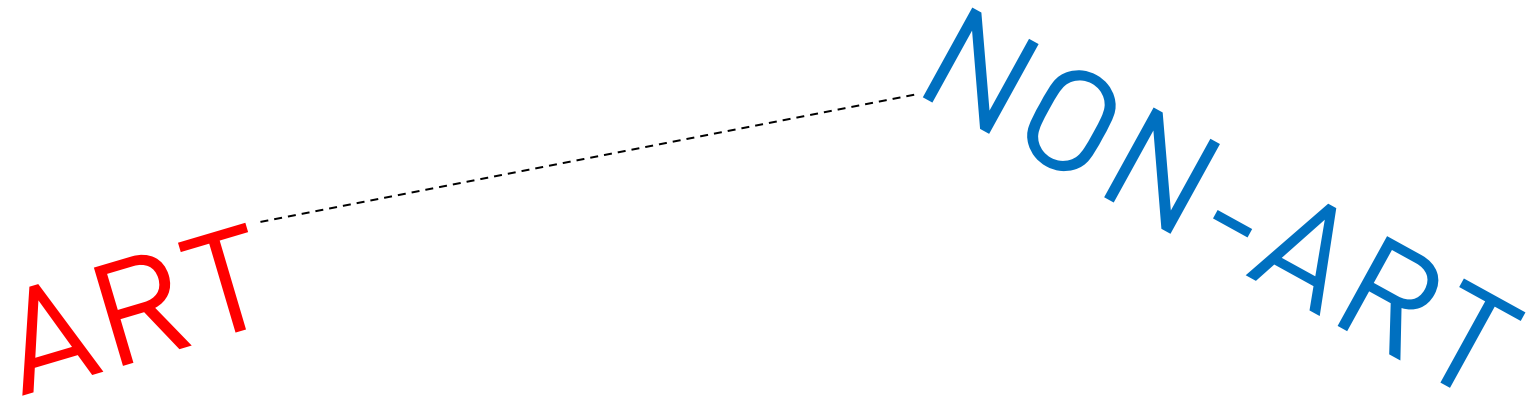


Common Education Tools



Narrow
Evaluation





ART NON-ART

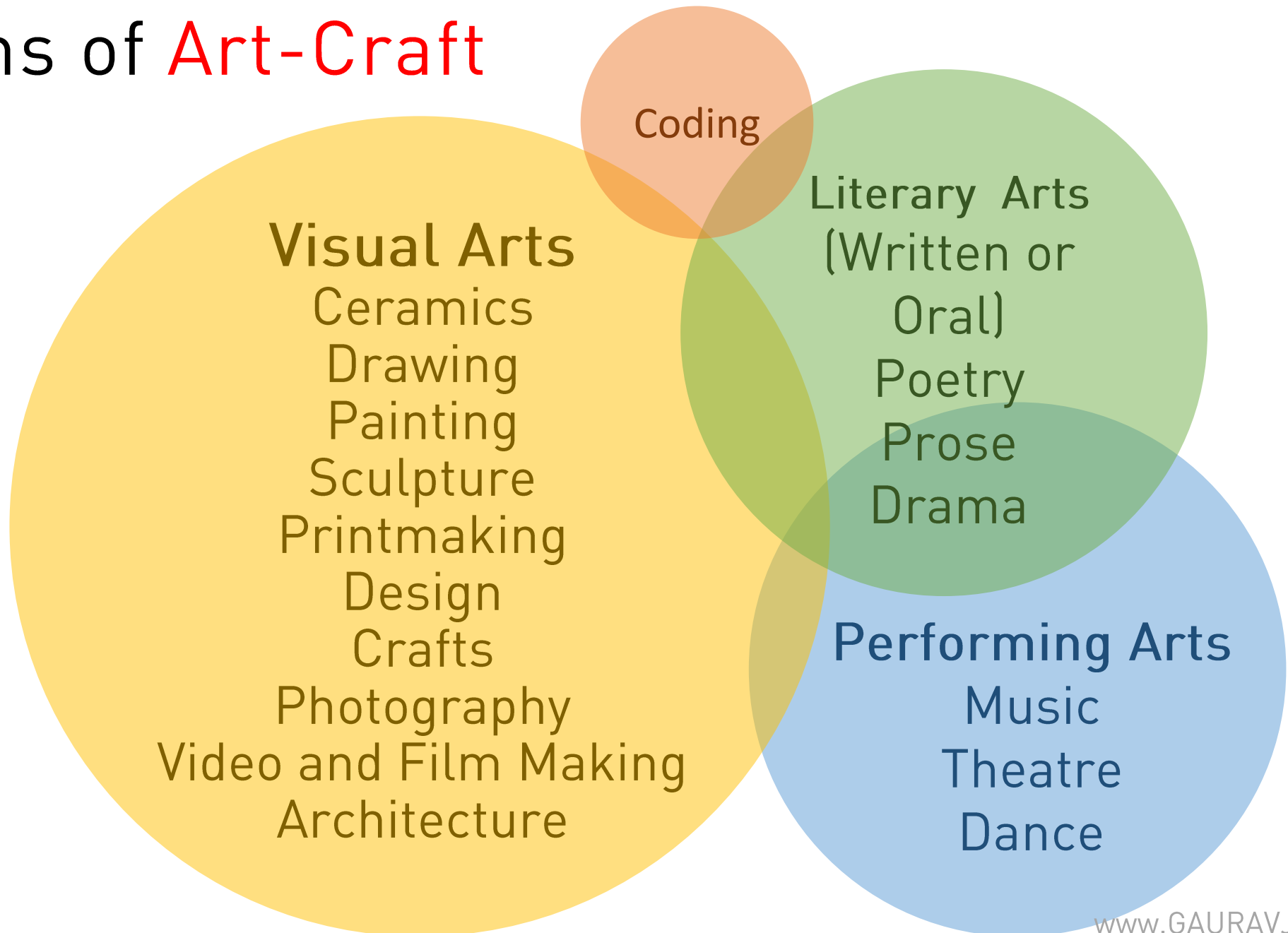
Not a tug-of-war !

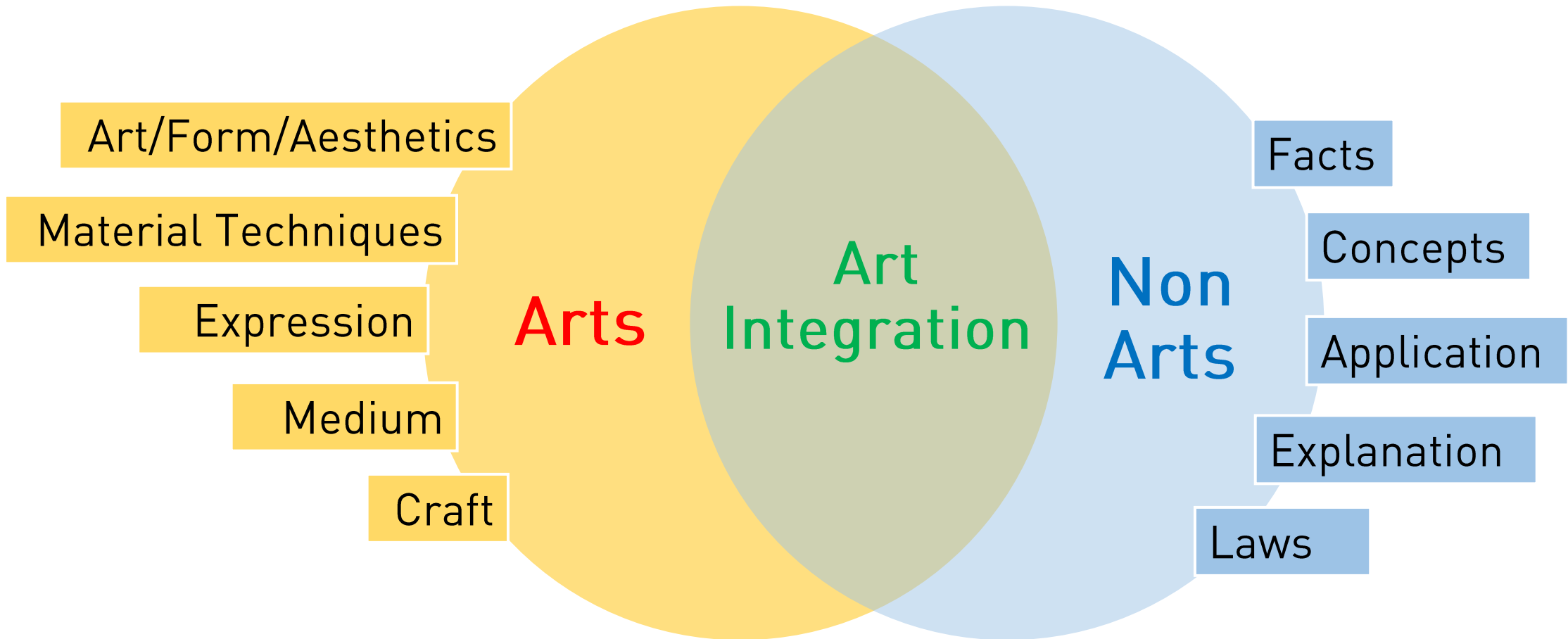
ART = EXPRESSION

NON-ART = EXPLANATION

WHAT IS ART INTEGRATION?

Mediums of **Art-Craft**

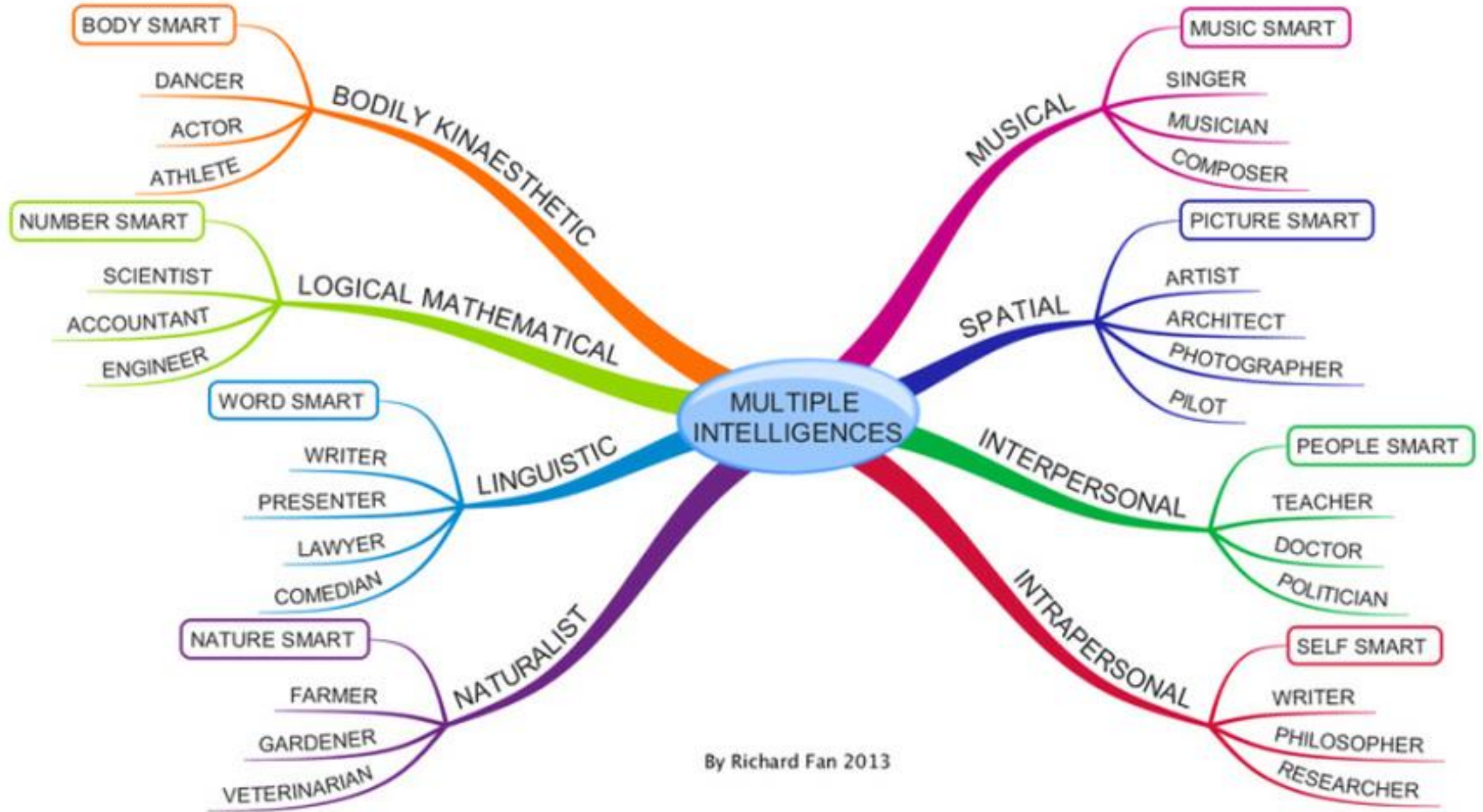




WHY ART INTEGRATION?

Multiple Intelligence by Howard Gardner (1983)





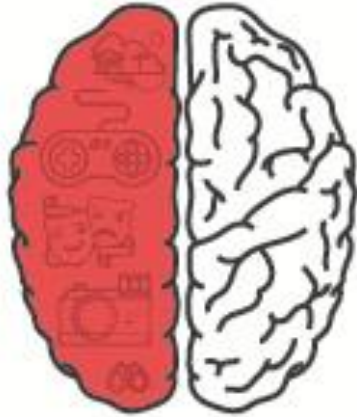
Arts-integrated learning activities give students permission to be creative, but with a focus and a purpose.

They remember more of what they learn because instead of memorizing content, they experience it.

- Hardiman, M. M. (2016)

Picture Superiority Effect

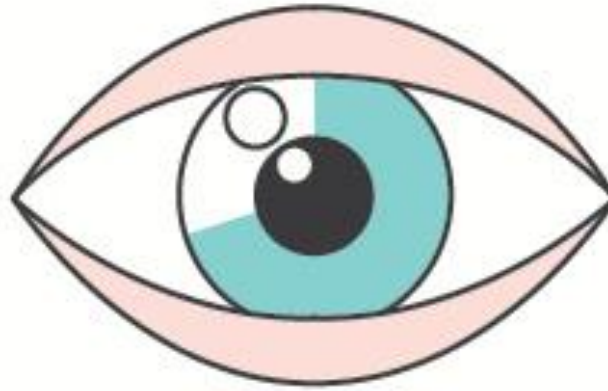
1



ALMOST
50%

of your brain is involved
in **visual processing**

2



70%

of all your **sensory**
receptors are in your eyes

3



1/10
OF A SECOND

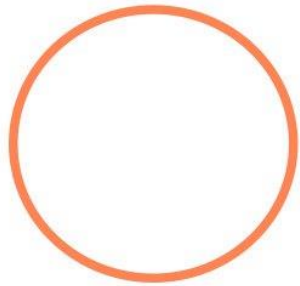
is all it takes you to
understand a **visual scene**

THE PICTURE SUPERIORITY EFFECT

CIRCLE

10%

RECALL 72 HOURS LATER



65%

RECALL 72 HOURS LATER



Single Encoding
verbal only



Kitten

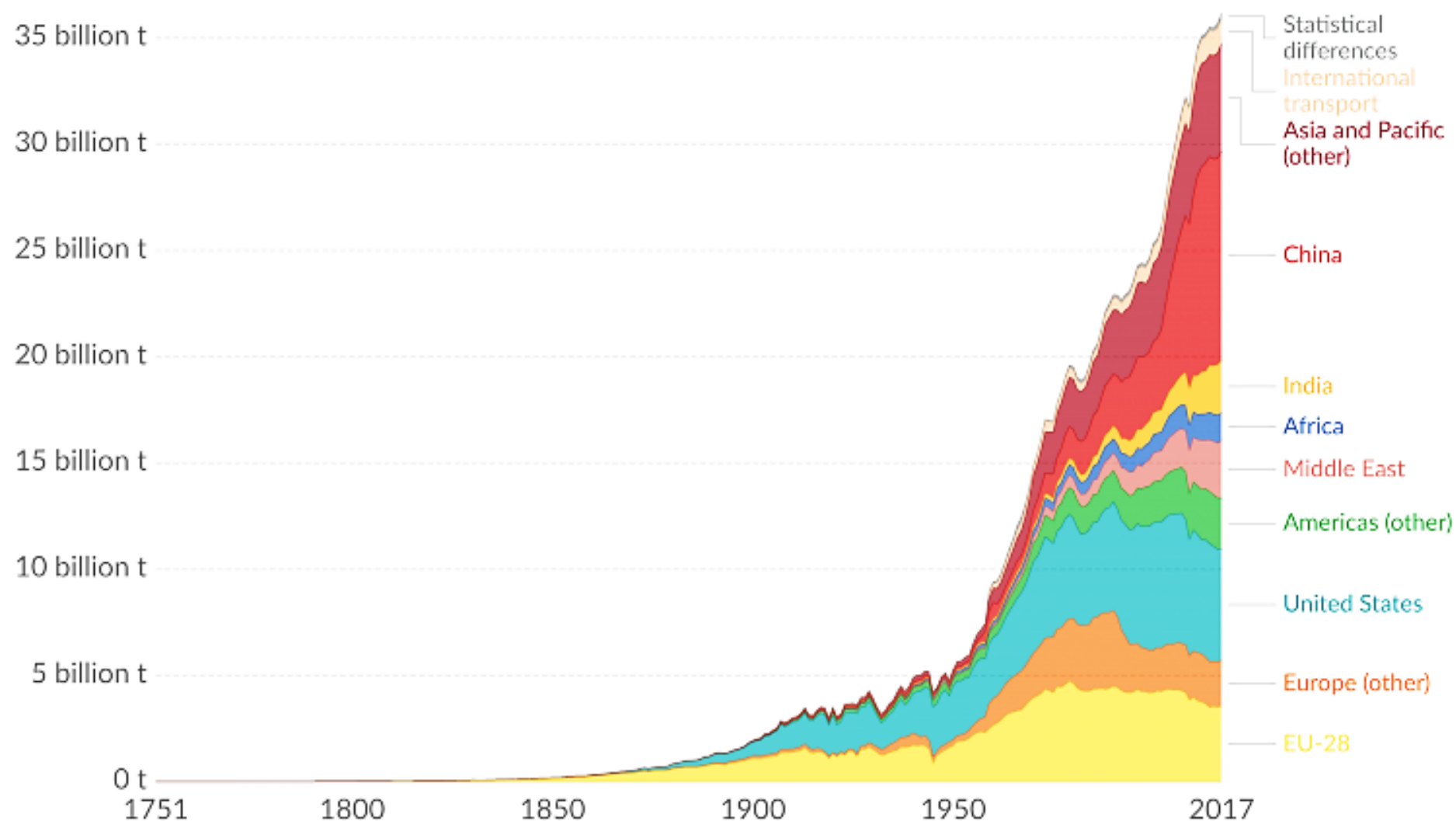
Dual Encoding
verbal + visual

Analyse this data on CO2 emission (country specific)

1	Data Source					
2	Last Updated Date					
3						
4	Country Name	1999	2000	2001	2002	2003
5	Aruba	20.31156677	26.19487524	25.93402441	25.67116178	26.42045209
6	Afghanistan	0.04072254	0.037234781	0.037846136	0.047377324	0.050481336
7	Angola	0.577082914	0.581961496	0.574316054	0.722958875	0.500225396
8	Albania	0.960164412	0.978174681	1.053304176	1.229540709	1.412697196
9	Andorra	7.975454404	8.019284294	7.786950001	7.590615141	7.315760706
10	Arab World	3.328341058	3.703857081	3.607956149	3.604612754	3.796467412
11	United Arab Emirates	26.42410404	35.91576427	30.70638223	24.34879643	28.78331607
12	Argentina	4.030588815	3.854991948	3.587350317	3.309683688	3.546088324
13	Armenia	0.97580205	1.128917501	1.161155504	1.00317471	1.136090873
14	American Samoa					
15	Antigua and Barbuda	4.419610574	4.534545359	4.511798684	4.73040424	5.086633039
16	Australia	17.19029769	17.20060983	16.73336743	17.37045177	16.90195895
17	Austria	7.741130615	7.774259739	8.192769898	8.299115796	8.889562334
18	Azerbaijan	3.579835395	3.666271029	3.547105484	3.623944346	3.718169927

Annual total CO₂ emissions, by world region

Our World
in Data



Source: Carbon Dioxide Information Analysis Center (CDIAC); Global Carbon Project (GCP)

Note: The difference between the global estimate and the sum of national totals is labeled "Statistical differences".

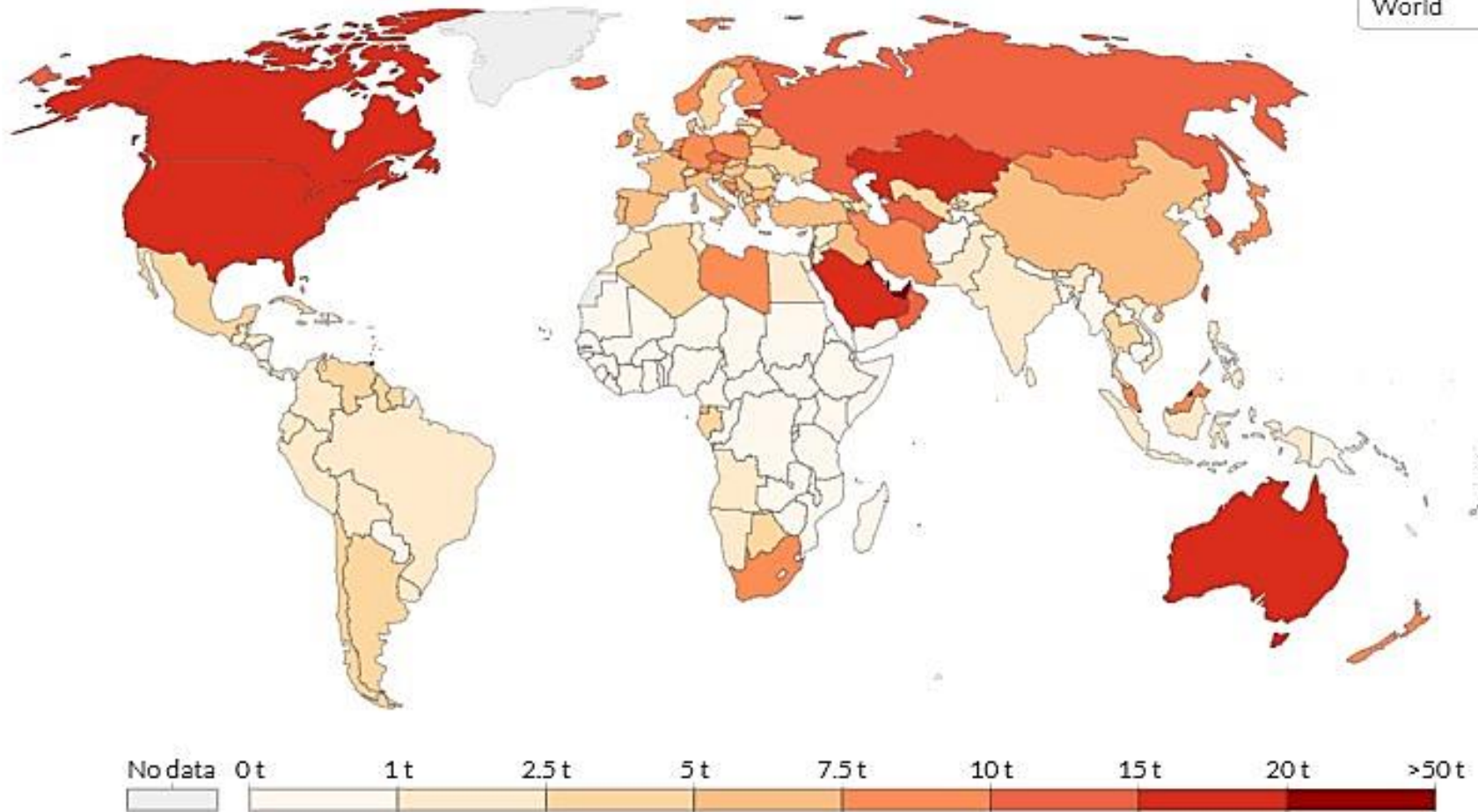
OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY

CO₂ emissions per capita, 2017

Average carbon dioxide (CO₂) emissions per capita measured in tonnes per year.

Our World
in Data

World



Source: OWID based on CDIAC; Global Carbon Project; Gapminder & UN

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Data Visualisation is an important tool for
Art Integration analysis and evaluation.



Olfactory - Smell



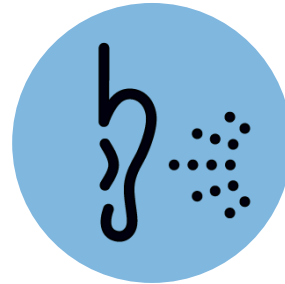
Gustatory - Taste



Interoception
Internal state of body



Visual



Auditory



Vestibular-
Balance and orientation



Tactile - Touch



Proprioception
Movement of Muscle & body in space

Visual sense can enhance learning and retention.
What if we connect learning with other **senses** ?

As a rule, the more **senses** you involve the more
engagement you get.

What if your students can **smell** literature,
taste maths and **touch** science.

Learning from a rural school.

Darbari Waldorf School, Jaisalmer.

Gaurav Juyal worked as a design educator and teacher at Darbari between 2018-2019



Build from **Earth** : Material is everywhere in nature



Simple \neq Boring :: Investment \neq Engagement



Freedom to manipulate the environment
gives rise to self-initiation



Limited in material but not in **thought**.
Mind-blocks are overcome by **creative/critical thinking**.



Introduce new mediums to boost student **engagement**.

Repairing, tool and material know-how is an essential skill now towards self reliant students and teachers.





How to **INTEGRATE**?

In-school **Art-Integration** process:

1



Sit with your team

2



Choose a topic to be covered.

3



Choose an appropriate medium of Art?

4



Run the activity,
Collect data,
Document, Compare.

3 point Rubric to evaluate:

1. **Content**: Sample weightage 35 (choose as per intention)

Concepts, Facts, Theory

2. **Process** : Sample weightage 30 (choose as per intention)

What thinking process did the student take from receiving the assignment to its final form.
To be recorded in written or oral format.

3. **Product**: Sample weightage 35 (choose as per intention)

Final Output, Art, Model

A **multiple point rubric** system can be used after **Art Integration** training.

Send a mail to know more: talk@gauravjuyal.com

Steps in achieving Art Integration:

- I. Leadership Approval and Support
- II. Arts Integration Leadership Team and Roles and Responsibilities
- III. Arts Integration Vision and Action Plan Ongoing Steps
- IV. Curriculum Development: Balanced approach
- V. Ongoing Professional Learning and Coaching
- VI. Documentation
- VII. Data and Assessment
- VIII. Ensure Sustainability

Art Integration:

1. Not another thing you have to 'DO'.
2. Multi-year commitment.
3. Inter-disciplinary.
4. Analysis - Insights for awareness.
5. STEAM is an example of arts integration.
6. Teachers need to practice and get rid of shyness.
7. Develop friendly attitude and patience.
8. Account for organising and cleaning amongst students.
9. May back-fire with overstressed teachers.



Naturally to cover all these disciplines we need **more** mediums, tools and techniques.

References:

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3. <https://vikaspedia.in/education/teachers-corner/tips-for-teachers/art-integrated-learning>
4. <https://www.scholastic.com/teachers/lesson-plans/teaching-content/making-models-solar-system/>
5. <https://b-inspiredmama.com/>
6. <https://www.classicalmpr.org/blog/classical-notes/2015/04/16/teaching-social-studies-in-music-class>

Let's **Integrate** Learning !

Art Integration

For Schools and Learning Hubs

Enquire for Training.



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