

1.

Are Lectures Effective?

Yes, but...

- Research shows that information is more easily learned when it is **linked to what one already knows**.
- · When you build your lecture:
 - introduce new topics with a review of material that came before
 - Use examples that are relevant
 - Use good transitions
 - Use slides or board with key points
 - Use conclusion of a summary
- · Important not to READ from slides



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Utilize more **ACTIVE** Learning such as **Dialogic Learning!**

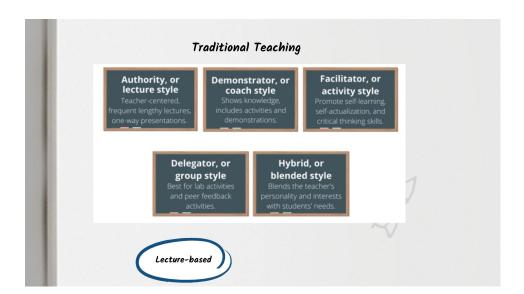


Pro:

 Can work for higher education
 Helpful for when you need to memorize information

Con:
 Not a lot of interaction with students
 it can get a little snooze-y

What is a lecture?



7.

5.

DIALOGIC TEACHING HARNESSES THE POWER OF TALK

Traditional

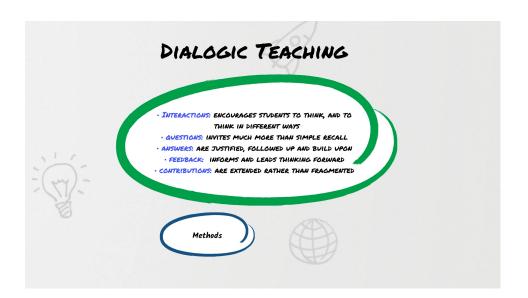
Examples and
Experiences

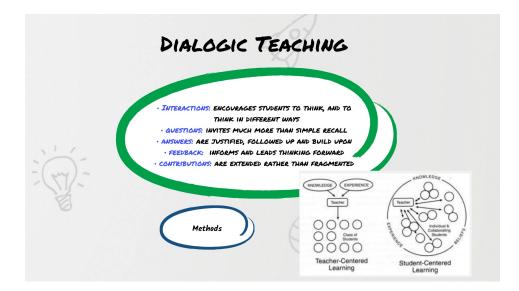
Steps for the
future

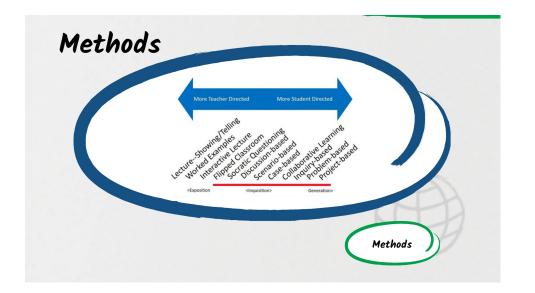
VINE
PREP
We rise by lifting others

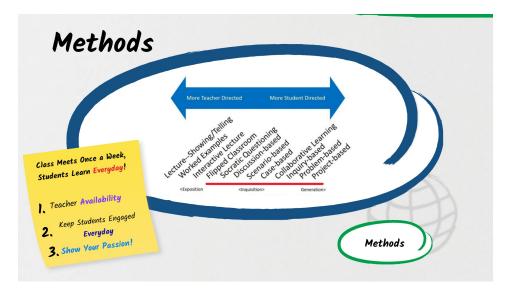
VINE Review Group

8.





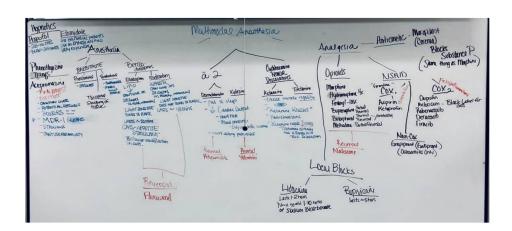




Interactive Lecture

- · Beginning of class
 - Use groups
- Brainstorm
- Post problems
- · Middle of class
- Pause
- Student expert
- Take a vote/discussion
- · End of class
 - "One minute" paper
 - Discussion





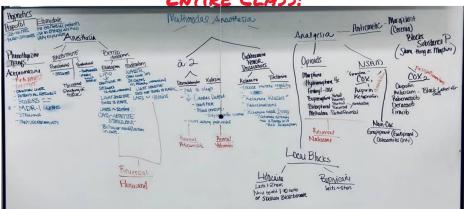
13.

Multimodal Anaothesia Antiemetic - Margalant (Carenia) Analgesia Local Blocks Flumazenil

Anesthesia Tutoring

ENTIRE CLASS! Multimodal Anaothesia

14.

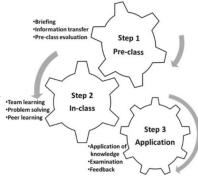


Anesthesia Tutoring

15. 16.

FLIPped Classroom

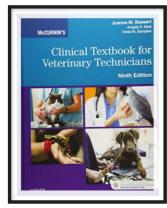
- Flexible environment
- Learning cultural shift
- Intentional content
- · Professional Educator
- Ideology built upon flipping Bloom's taxonomy
- Great for online learning
- · Allows for classroom application
- extends learning opportunities



Creating Creating Lecture time Homework used for class with **Evaluating** Evaluating activities assignment Analyzing Analyzing **Applying Applying** Low stake quiz to test Questioning Understanding Understanding understanding Home-Remembering Remembering Lecture assignment A: Traditional Lecture **B: Flipped Classroom**

17.

Pre-Class



Fluid Therapy Notes Beth Anne, CVT, CFE, CCFP, CTP Please read Chapter 25 from McCurnin's Textbook and answer the following questions to 2.) TBW is spread across what spaces? One of these spaces is then divided into what two 3.) What can move freely across the vascular endothelium but cannot move across the cell membrane? What can move across all barriers? 4.) How much electrolyte solution will remain in the vascular space when given? 5.) What solution will stay in the vascular space? 6.) Colloid solutions may have the ability to increase what? 7.) What is the newer synthetic colloid dose per McCurnin's textbook? Too many synthetic colloids can have what potential side effect? What is the most recent concern regarding hydroxyethyl starch solutions? 9.) Hypovolemic shock would be if an animal lost about what percentage of blood volume? Name the 3 phases of Fluid Therapy. Describe what each phase is, and give the formulas for dogs and cats for each phase.

4.) How many breaths a minute do you give a patient during CPR?

CASE STUDIES

IN VETERINARY

TECHNOLOGY

In-Class

18.

- 1.) How many roles are involved in a CPR? What would their jobs be? Is there such a thing as to
- 2.) What should be stocked in a crash cart? List each and every item, including drugs.

19. 20.

After Class???

After Class???

- Application Homework

 - Lab
 - Project
- Test/Quiz
- Hybrid work online school shellRelate to REAL LIFE problems

21.

After Class???

- Application Homework

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23.

After Class???

- Application Homework

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Socratic Method

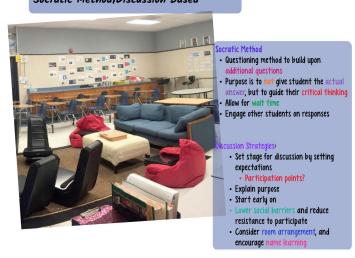
- Questioning method to build upon additional questions
- Purpose is to not give student the actual answer, but to guide their critical thinking
- Allow for wait time
- Engage other students on responses

Discussion Strategies:

- Set stage for discussion by setting expectations
- Participation points?
- Explain purposeStart early on
- Lower social barriers and reduce resistance to participate
- Consider room arrangement, and encourage name learning

2

Socratic Method/Discussion Based

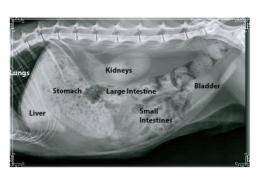


27.

25.

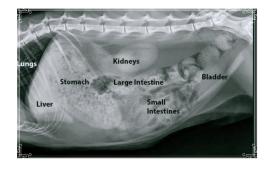
Scenario-based/ Case-based

· How can we share cases?



Scenario-based/ Case-based

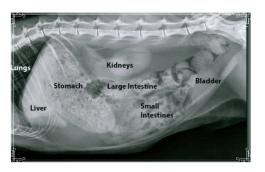
- · How can we share cases?
 - · Case Study book
 - Inventing cases
 - Evaluating videos



Scenario-based/ Case-based

- · How can we share cases?
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Good and Bad



29.

31.

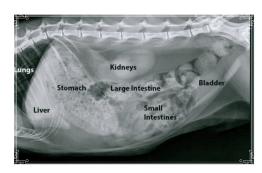
30

Scenario-based/ Case-based

- · How can we share cases?
 - Case Study book
 - Inventing cases
 - Evaluating videos

Good and Bad





Collaborative Learning

- using groups to enhance learning through working together
- two or more learners work together to solve problems, complete tasks, or learn new concepts
- be aware of potential disadvantages from group dynamics
- important to **come together** as a group for discussion

	Name:
How was your surgery yesterday with your patient? (What did you give? What was your procedure?)	What could have been better with your patier What were your difficulties with your patient!
What could you have differently with your patient?	What do you feel the outcome would have be
patienti	

Project-based

Project-based

problem, or challenge.

concepts and CREATIVITY

situations

the students

• students gain knowledge and skills by working for an

extended period of time to investigate and respond to an authentic, engaging, and complex question,

· focuses on enabling student to face real world

• impacts the development of interpersonal skills

· determines in depth knowledge and experience of

· develops greater depth of understanding the

· an effective way of including technology

The focus of this topic is on the importance of conservation and value of biodiversity in ecosystems, and the consequences of reducing blodiversity (example: through invasive species). There are currently many species of organisms which are endangered/threatened and ultimately going extinct. There have been five mass extinctions in the history of life on Earth and we are currently in the midst of the sixth, which is the result of human activities.

Part of our jobs as CVTs is to understand biodiversity and Ecology. We must speak for all animals and critters. For your project, I would like you to research a species that is on the endangered/ threatened list. You will be presenting to your class these objectives below in a presentation. This presentation will be due **Monday, Week 8**.

Scientific name (correct Genus and species)	/2
Common name	/1
Location/characteristics of natural ecosystem	/6
Causes/reasons for decline	/6
Specific characteristics	/4
Species is different from #1 (plant, mammal, amphibian)	/1
Habitat	/6
How was it brought here?	/4
Why is it considered to be a problem?	/6
How can we save it?	/10
Cost to save the species?	/4
Cost on the impact on the economy or ecosystem	/6
Medical ways we can help	/5
Medical ways this species may help	/4
Creativity	/10
Organization	/15
Neatness and Grammar	/15
Audience Engagement	/10

Presentation Total: _____/115

33.

Project-based

- students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge.
- · focuses on enabling student to face real world situations
- impacts the development of interpersonal skills
- develops greater depth of understanding the concepts and CREATIVITY
- · determines in depth knowledge and experience of the students
- · an effective way of including technology

34.

Conservation Project

Only one person can choose one species. If you are set on having a certain species, make sure you choose that species and notify your instructor ASAP. You will have a project check on **Monday, Week 4**, so bring your projects with you on that day.

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itations	Pass/Fail

Conservation Project

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Project-

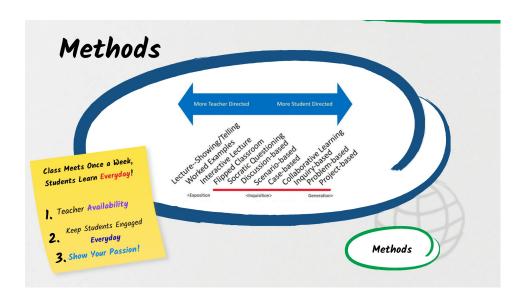
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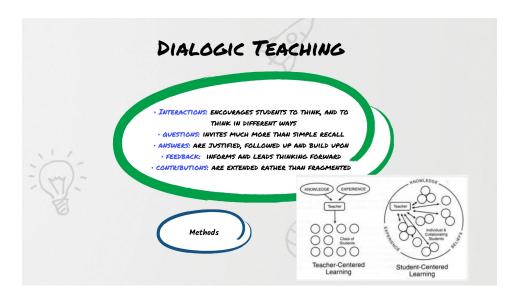
- · focuses on enabl situations
- impacts the deve develops greate concepts and C
- · determines in de the students
- · an effective way



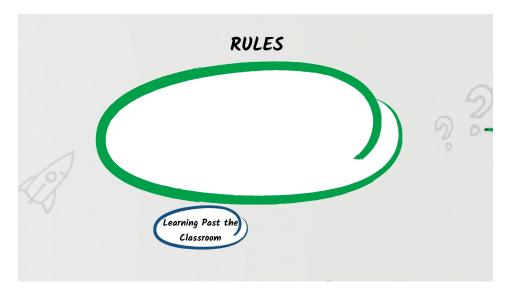
Presentation Total: _____/115

35. 36.



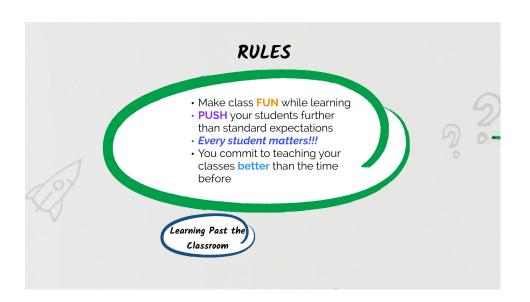






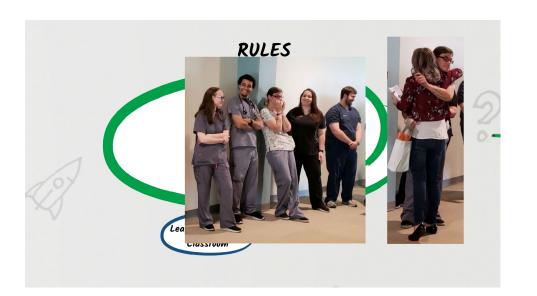
38.

39. 40.





41. 42.



43.



Examples:

- Class that learned:
 IV catheters, blood draws
- Fluid therapy
- Heart worm testing
- COHATs
- Nutrition
- Emergency and Critical Care CPR



Volunteered:

- · Low cost clinic to practice skills
- · Visited local feed store to research first hand food and treats



45.



47.





Encourage Continuing Education Now!



Rat Names and Rodent/Rabbit Enrichment





Rat Names and Rodent/Rabbit Enrichment





How do you get your students to remember their anesthetic drugs?

51. 52.

Rat Names and

Expanding an animal's options for species-specific behavioral expression can positively affect both physiological and psychological with being. Given that each species evolves to maximum its Charles between the property of the property







How do you get your stud

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53.

Rat Names and



How do you get your stud

Popcorn and a Movie!

- Watch documentaries and enjoy great discussion
- Encourage questions!

How do you get your stud

- Movie doesn't have to be 100% in what YOU believe
 - · Paw Project
 - · Pet Fooled
 - · Through a dog's eyes
 - My Bionic Pet



55. 56.

Popcorn and a Movie!

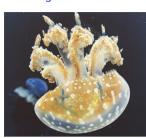
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Valued Guest Speakers

- Previous students are the BEST guest speakers!
- Look for someone well-known within the community
- Do a **field trip** with a guest speaker as a tour guide

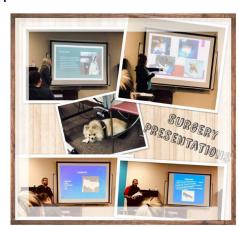




Applied Cases

57.

- Externs pick ONE case to focus on
- Present to class on last day
 Signalment
- Presenting Problem
- Case is SOAP format
- Updates through out hospital stay (and any rechecks)
- Outcome
- · What other options could have been explored (interview with case DVM)
- · What extern's role was this patient
- · What did the extern do that was great, and what did they think that they need to improve on for this case?
- Why did they pick this case?





58.

59. 60.



Put it all together...

- Fully prepared courseover-viewing material from entire program
- evaluating questions to determine BEST answer
- Build confidence!
- Direct to helpful resources
 - Start them networking right away!
 - VTNE Review Group

 f • LIVE Zoom Review
 - Mentorship Program

62.

"VTNE Prep"



63.

61.





