

Usage of Engaging Moments (E-moments) to Enhance Learning in an Introductory Animal Science Course

Katie Frenzen, Kathy Hanford,
and Bryan Reiling*

Perception of Large Classes

- ✓ Boring Lectures
- ✓ Minimal Engagement
- ✓ Optional Attendance





We hypothesized that E-moments ...

- ✓ Help students comprehend information
- ✓ Break up the monotony of lecture



What are E-moments?

(Reardon & Derner, 2004)



- ✓ **Short activities**
 - 5-10 minutes
- ✓ **Mentally stimulate**
 - Comprehension
 - Recall
 - Transfer

What are E-moments?

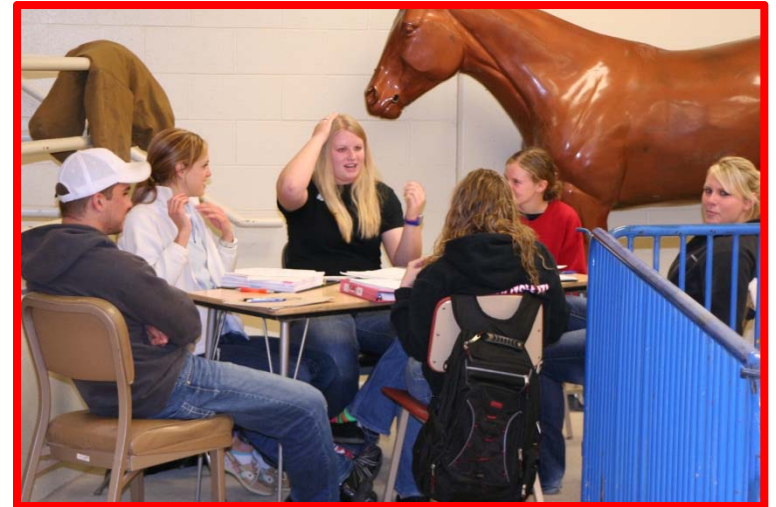
- ✓ Apply to 1 or more of 3 learning modalities
 - Kinesthetic, Auditory, or Visual



What are E-moments?

✓ Theoretically,

- ↑ students' challenge level
- Create positive emotions
- Students synthesize content
 - in their own words
- Instill success in content



UCARE Project

- ✓ **Foundational Introductory Course**
- ✓ **4-credit course**
 - 3 hrs of lect (MWF, 8:00 AM)
 - 1 2-hr lab session
- ✓ **Fall semester, 2011**
 - 103 students enrolled



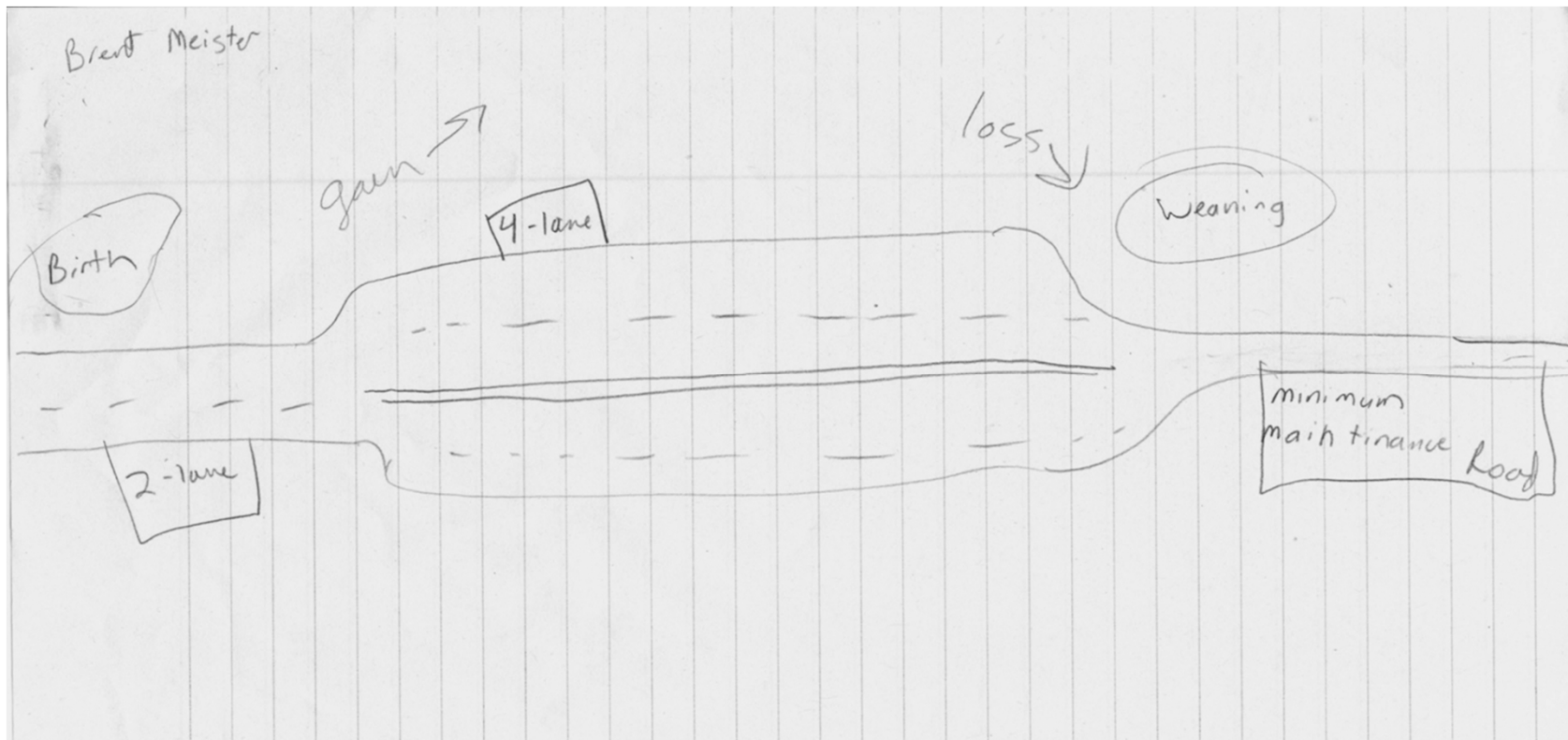
What did we do?

- ✓ Variety of E-moments selected for use
- ✓ Conducted on randomly selected days
 - 14 times throughout semester (~ 1-2X/wk)
- ✓ “Control” lectures; No E-moment



Example E-moments Used

✓ Cartographer



Example E-moments Used

✓ Eye-witness



Example E-moments Used

✓ Party Host



Example E-moments Used

✓ Dickens

Oxytocin
Alveoli
Myoepithelium
Blood supply
Dores/folicles
Gland Cistern
Teat Cistern
Streak Canal.

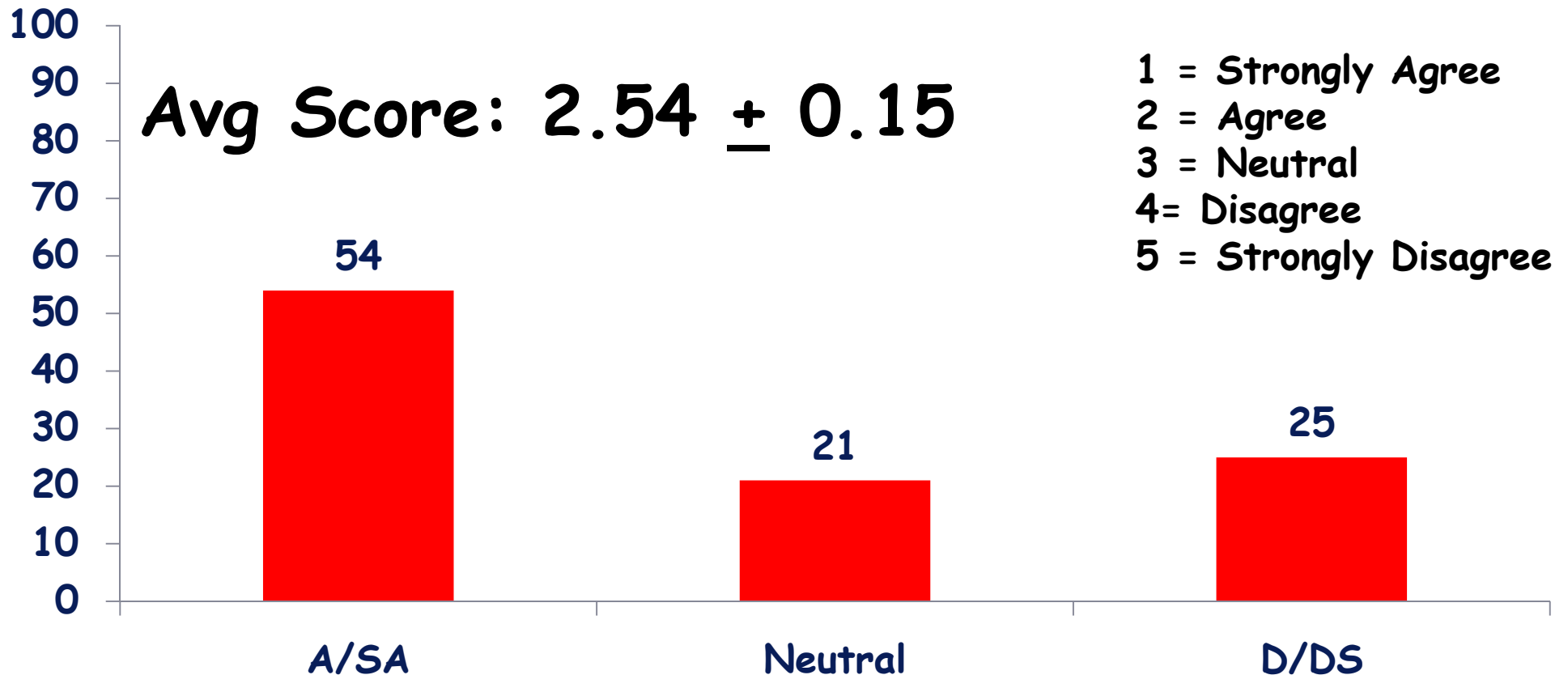
Princess Milkina is locked up in her alveoli dungeon within the lobecastle. She is kept alive by the constant blood supply and her hopes for prince charming to come rescue her. Prince myoepithelium and his trusty Steed oxytocin finally made their way from the magical kingdom to release her from the prison. Oxytocin allowed Prince Myoepithelium to squeeze the princess out of the dungeon. But they were not free yet. Upon being released from the lobe castle they had to trek through the gland cistern forest and across the teat cistern river. Then they were so close and could see the magical kingdom! But first they passed through the magical streak canal portal. They were finally home. And they lived happily ever after. The end.

What did we do?

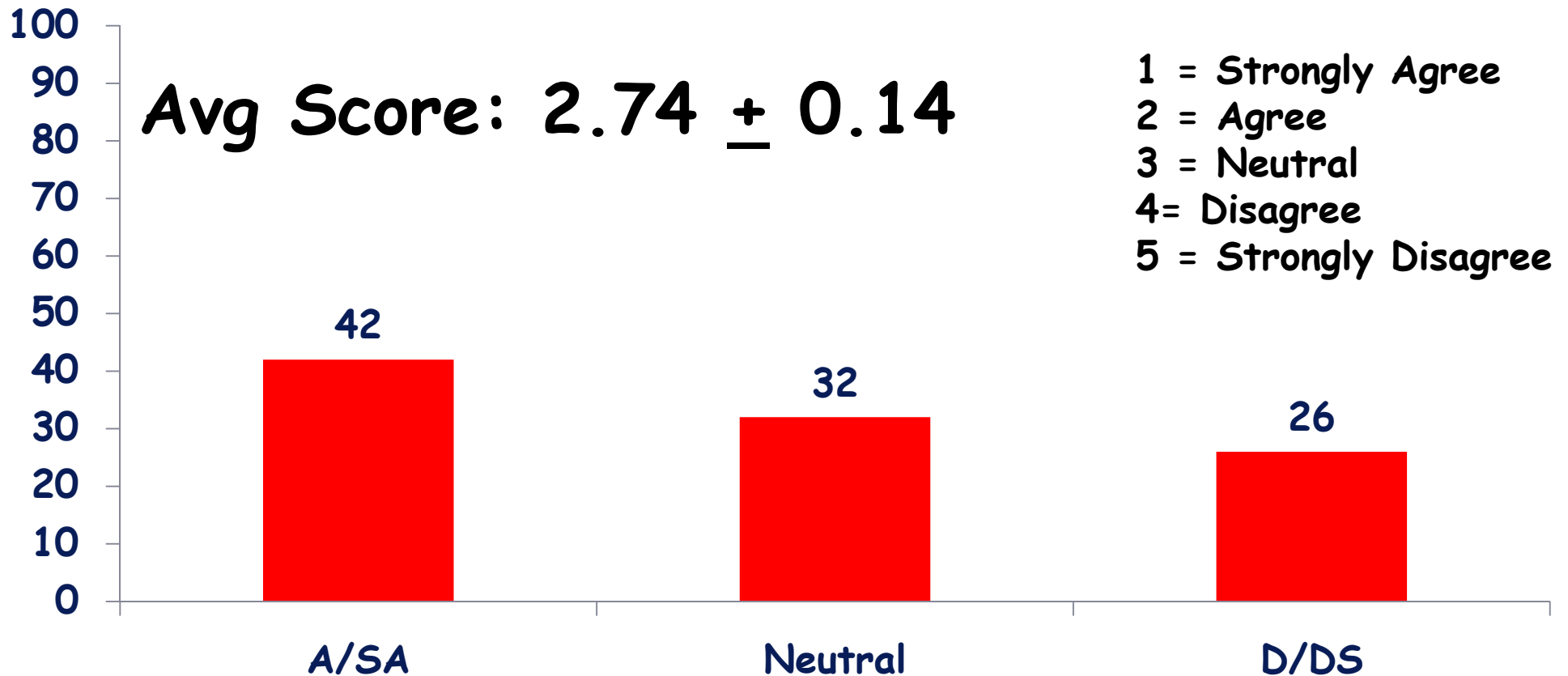
- ✓ **To test short-term retention & understanding**
 - 3-question “clicker” quizzes administered
 - Upon start of the subsequent lecture
- ✓ **Anonymous survey**
 - Administered the last week of class
 - To what extent do you agree with the following statements ...
 - 1 = Strongly Agree
 - 2 = Agree
 - 3 = Neutral
 - 4 = Disagree
 - 5 = Strongly Disagree



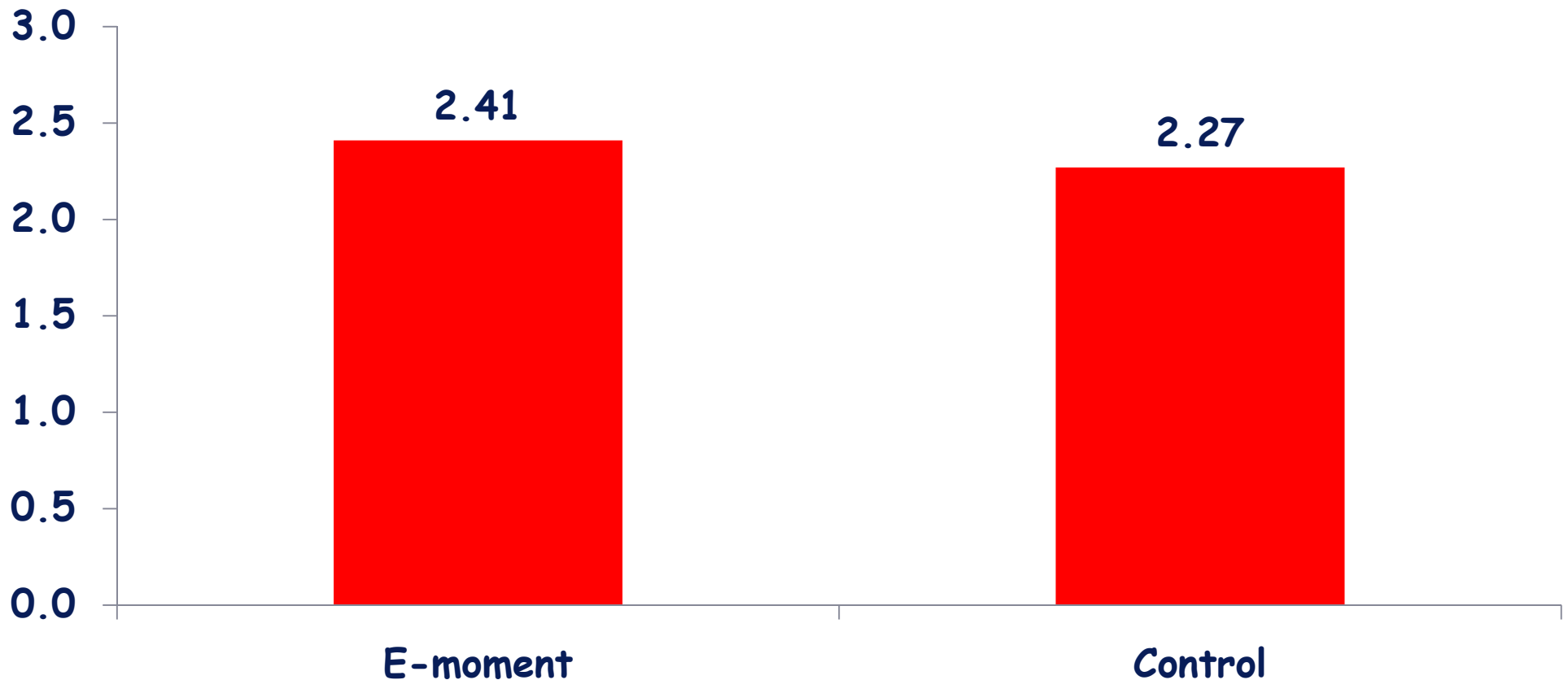
E-moments helped me recall key points for quizzes and tests



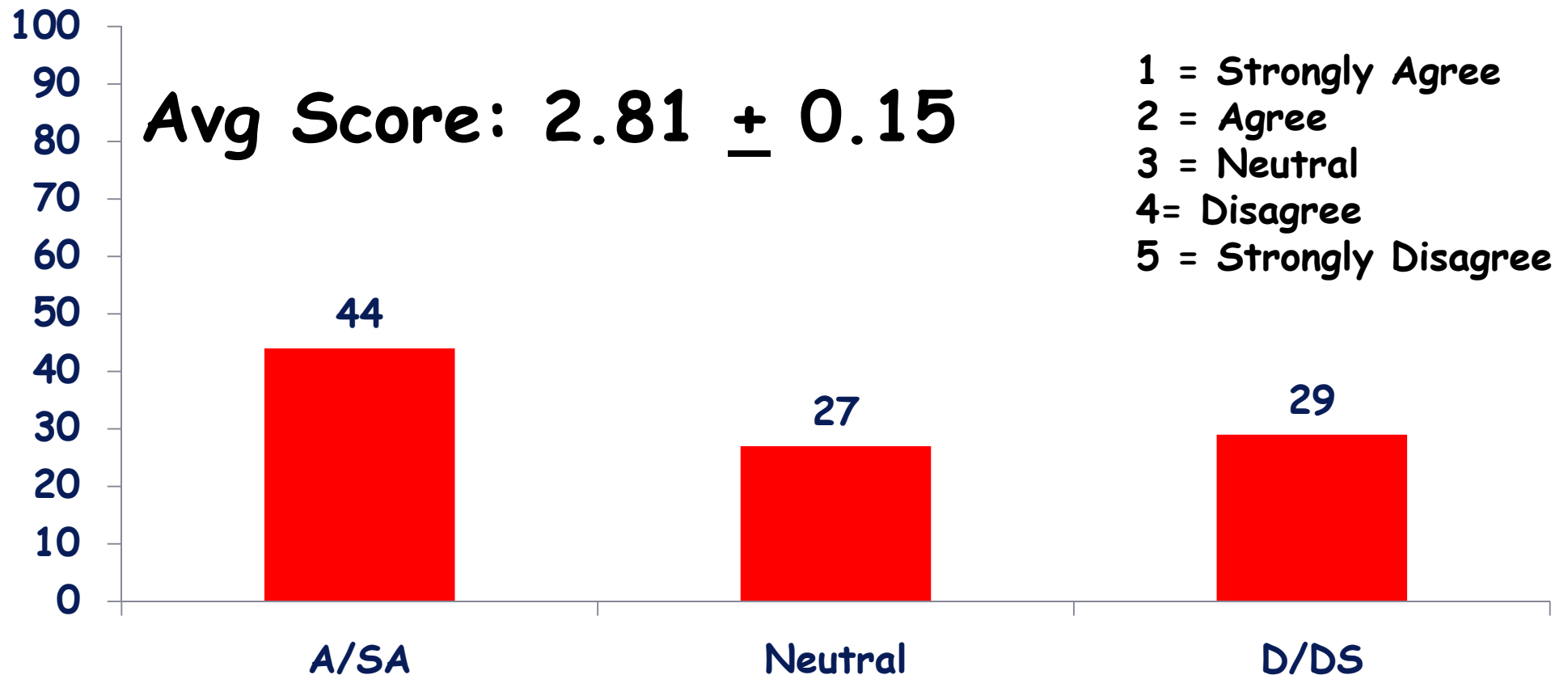
E-moments helped me understand material at a deeper level



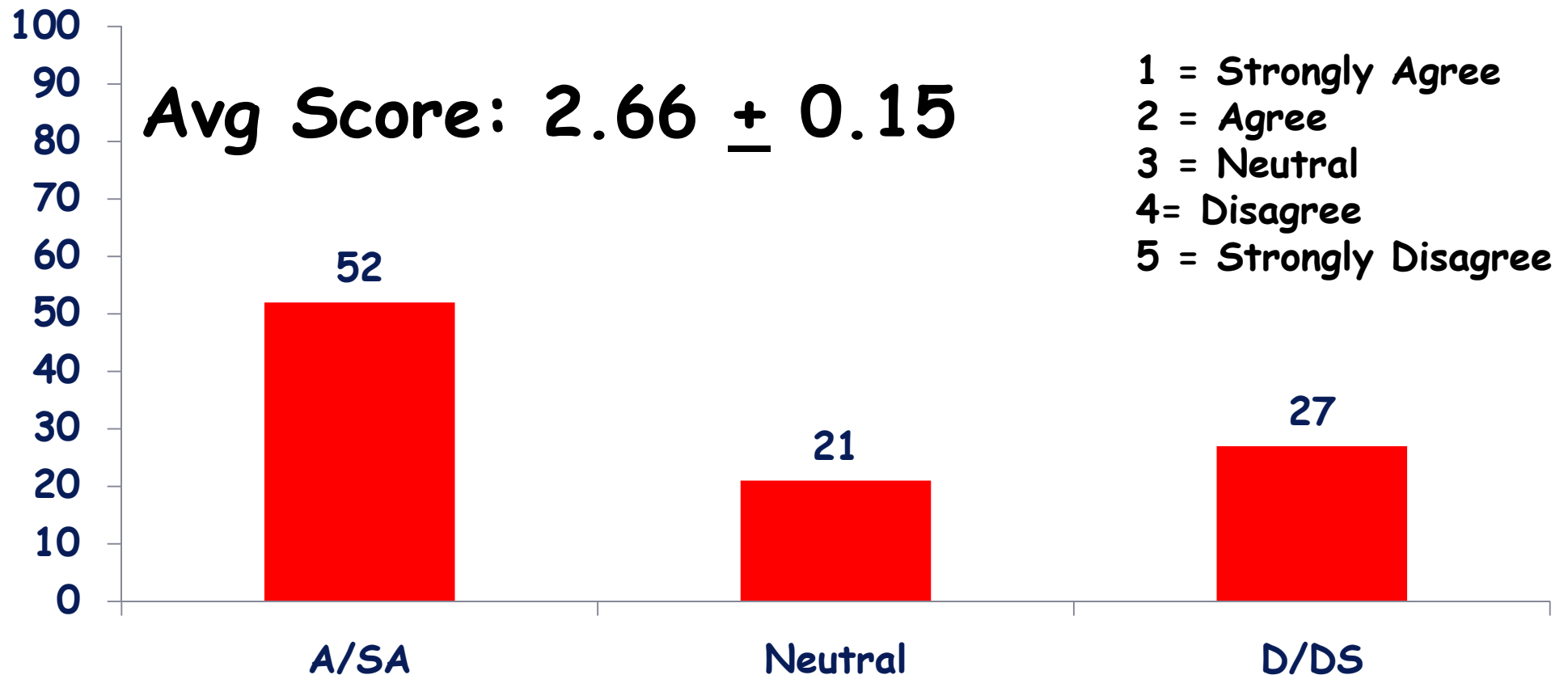
Average Student Performance on Subsequent Day Clicker Quizzes



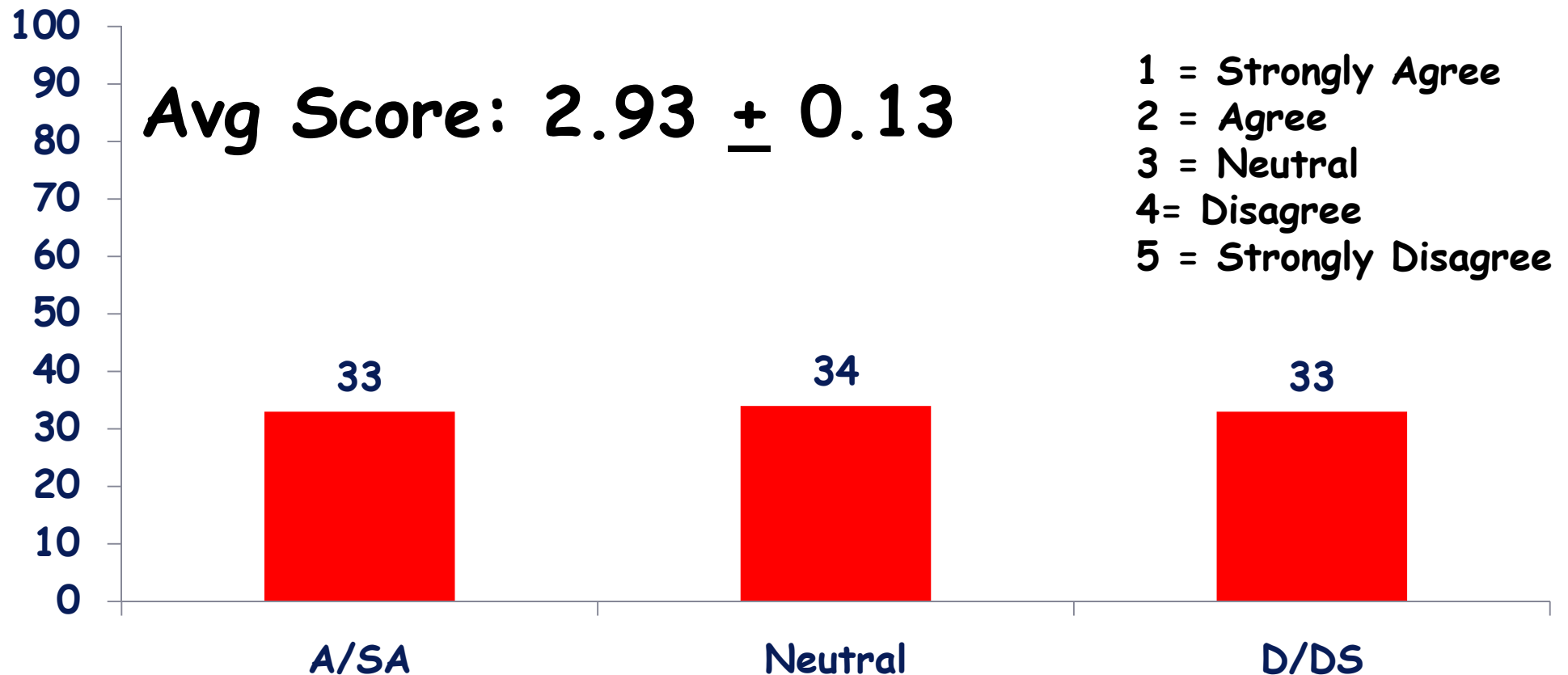
E-moments made lecture more enjoyable.



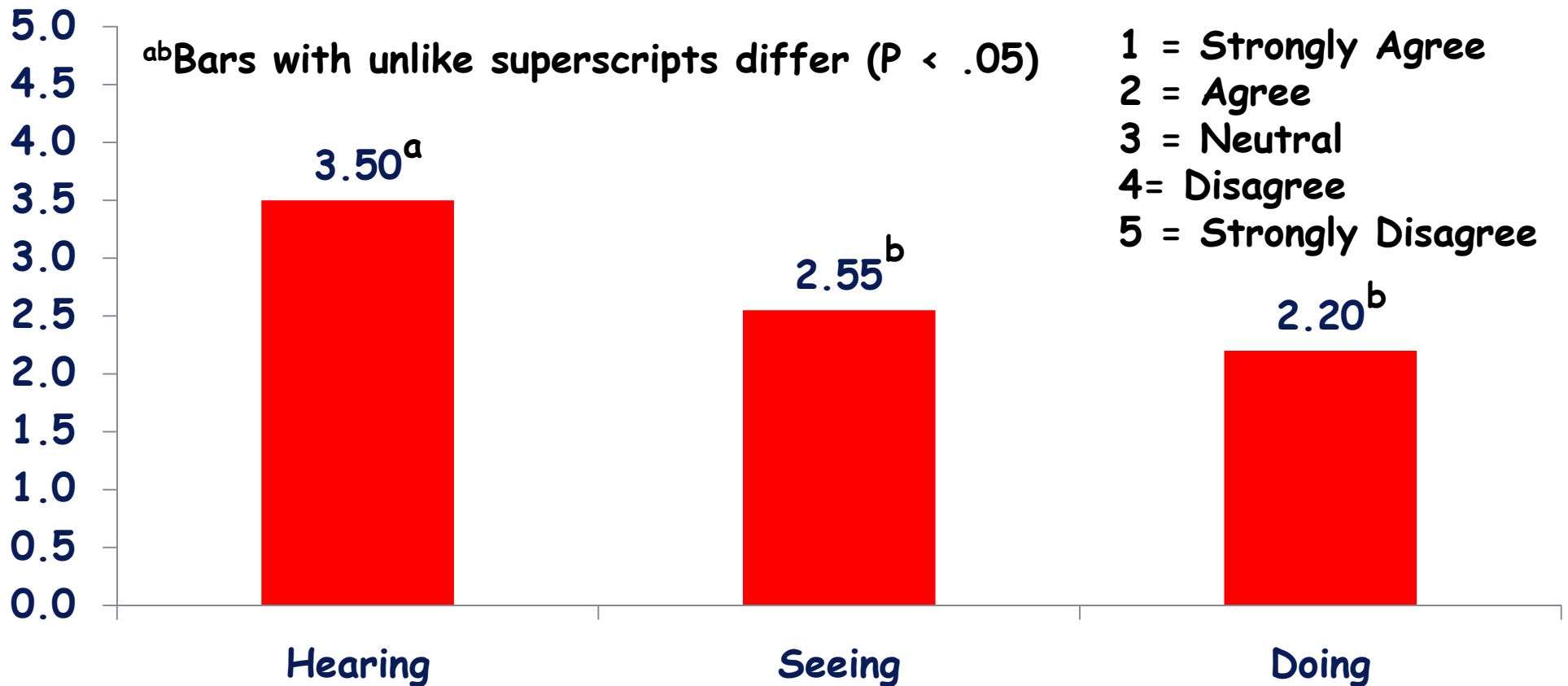
The E-moments were an effective use of class time.



After an E-moment, I was more willing to be pay attention



E-moments allowed me to use my preferred method of learning



Summary

- ✓ **E-moments have a place**
 - **Function to break up the monotony of lecture**
 - **Function to make students think & synthesize**



Summary

- ✓ Not for everyday
 - May “turn-off” some students
 - Seemed to “elementary”
 - Judicious selection
 - Type of E-moment related to content objective



Questions



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