Brain Strain to Brain Gain
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Pre-session Thinkable

What are these word puzzles saying?

Share some Brain Facts:
Key Research to support the application of Brain Science

“The illiterate of the 21st Century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn.”

- Alvin Toffler

Globally, organisations are spending more than $250 billion annually on employee learning. Therefore, time and money is at risk if transfer doesn’t occur the first time.  

- Learning is an ______________ process. Participants must have adequate rest, health and physical ability. Basic needs of students must be satisfied before they are ready or capable of learning.  

- Psychologists and neuroscientists who study the brain tell us that the brain goes into a trance approximately 30% of the time even when doing crucial tasks. Therefore, ______________________ the brain is ______________________ not optional.  

- When standing up your brain is fed at an optimal rate.  

- Reduce ______________ to increase _____________________.  

- The ______________ component of learning brings us to a state of openness for learning. CIO - Control, Inclusion, Open.  

- Participant-centred learning drives _______________.  

- Full ________________ when learning something for the first time makes a difference.  

1 2014 State of the Industry Report ATD  
5 Life Unlocked: 7 Revolutionary Lessons to Overcome Fear, Srinivasan Pillay MD. August 2011.  
6 Choice Theory  
Creating Learning “Stickiness”

Malcolm Gladwell in his book *Tipping Point* (2000) defined “stickiness” as “the specific content of a message that renders its impact memorable.”

In the context of workplace training, stickiness tracks the level of learner engagement and knowledge retention.

A “sticky” training course means that lessons taught in the course are well engrained in the learners’ memory and are likely to actually be applied on the job.

**Activity:** What does stickiness mean to you?
Five ways to help make the learning stick

1. Make it ________________.

2. Evoke ________________.

3. Use _______ times.

4. Provide Choices.

5. Put the learner in the ________________.

Using Brain Science to help with the content

1. Consider the ________________ curve.

2. Recognise the myth of ________________.

3. Apply sitting/standing theory.

4. Remember that the __________ is social.
   a. It needs interaction
   b. It builds connections with other brains
   c. Think of the yawning effect

5. Acknowledge that brains have short ________________ spans.
   a. They need repetition
   b. Multiple channels of processing creates deeper learning
   c. Curiosity and novelty gives us a dopamine hit!

6. Learning is enhanced by ________________ the big picture and allowing students to ________________ the details themselves.
**Discussion:** What does this mean for us in our training and assessment roles?

**Using Props to Anchor your Message**

The process of anchoring, is an effective means to solidify and transfer learning experiences. In its simplest form, anchoring involves establishing an association between an external cue or stimulus and an internal experience or state, as in the example of Pavlov ringing the bell for his dogs. A lot of learning relates to conditioning, and conditioning relates to the kind of stimuli that become attached to reactions. An anchor is a stimulus that becomes associated with a learning experience. If you can anchor something in a classroom environment, using a prop for instance, you can then bring the anchor to the work environment as a powerful reminder of what was learned.

Here are six reasons why you would use props to anchor your message:

1. To make a **specific** point
2. To make the learning **memorable**
3. To help learners **understand** the message more effectively
4. To support **humorous** interaction
5. To maintain **attention**
6. As a **reward**.
**Discussion:** How else could props be used in training?

**Activity:** Using one of the props from the “props box” create an anchor to a topic, concept or learning outcome with which you are familiar. Describe the connection between the prop and the learning below:
Creating a Soundtrack to Learning

**Why Music?**

- Music is something all human cultures have.
- Music both pre-dates and _______ language.
- Music helps to _______ motor function.
- Music is even powerful _______.
- Brains are wired for ________.
- We want to create learning _________.
- We need to be _______ and _______ with learners!

**Activity:** Think about films, television programs or advertising – why is music used?

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How music affects learning

- Music helps create learning states that assist in holding __________ and __________ retention of information.

- Music _________ mental, physical and emotional rhythms.

- Music facilitates students' attaining a state of deep ______________ and ________.

- Songs, chants, poems, and raps will __________ memory of content facts and provide a ______ for retrieving information easily later.

**Discussion**: How have we used music so far?
• Background music as students enter, exit or take a break is used to provide a welcoming atmosphere and helps prepare and motivate students for learning tasks.

• Music provides a positive environment that enhances student interaction and helps develop a sense of community and cooperation.

Where to find appropriate music

• Itunes – “royalty free music” or “background music”.
• www.royaltyfreemusic.com
• www.royaltyfreeheaven.com
• www.stockmusic.net

Activity: “Theme Song” – Select a theme song for your table group and explain how this might be a metaphor for learning
Marc is the CEO of MRWED Training and Assessment, a private RTO specialising in Trainer Training and Leadership and Management. He is a multi-award winning trainer, author and education entrepreneur and believes that fun and engagement are critical for learning to thrive.

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