

## **Principles of Brain Research and Harkness**

### **Three Concepts from Brain Research that relate to Harkness learning ( and all good teaching)**

**Because we as teachers have what is called and “EXPERT BLINDSPOT”- we often underestimate the importance of these principles**

**INFORMATION MUST BE CONSOLIDATED** It is important to regularly return to a few big ideas so the brain can process new information

**INTERFERENCE** must be diminished

**NEW INFORMATION MUST BE USEFUL-** the brain is attracted to what is useful students must see the connections

### **Principles of Learning**

- 1) Engage Emotions**
- 2) Target Practice- increasing touches on the ball**
- 3) Timely Feedback**
- 4) Cultivate Mental models (where am I going?)NEED TO SHOW EXAMPLES**

### **Assignments should have**

- 1) Mental Model: learning is making mistakes and correcting them**
- 2) Target practice happens**
- 3) Rapid feedback**
- 4) Emotional trigger-find the feeling**

### **Qualities of Great Teachers**

- 1) They CARE**
- 2) They can make new information clear**
- 3) They make learning compelling**