



## WHY PROMOTE INQUIRY-BASED SCIENCE PROGRAMMING?

### WHAT IS INQUIRY-BASED LEARNING?

Inquiry-based learning is a learning process, or strategy, of teaching which focuses on increasing retention rate through lessons which allow for student-constructed learning, as opposed to teacher-transmitted information.

### WHY IS IT HELPFUL?

- Increases student involvement
- **Engages** on more than one level
- Promotes contextual learning
- Encourages collaboration among learners
- Creates **individual construction** of meaningful knowledge  
(rather than passive acquisition of facts from a lecturer)
- Students are engaged in the same activities/thinking processes as scientists (these processes are not often familiar to educators)
- Leaves a lasting impression which causes **greater retention**

According to The National Academies Press (2007)

	<u>INQUIRY-BASED</u>	<u>TRADITIONAL</u>
Principle Learning Theory	Constructivism	Behaviorism
Student Participation	Active	Passive
Student Outcome Involvement	Increased Responsibility	Decreased Responsibility
Student Role	Problem Solver	Direction Follower
Curriculum Goals	Process Oriented	Product Oriented
Teachers Role	Guide/Facilitator	Director/Transmitter