

# Workshop Objectives

- Define Great teaching
- Explain and give examples of Highest Leverage Practices
- Become familiar using the TTESS Rubric
- Practice Scoring using the TTESS Rubric



## A Great Teacher has....



GREAT TEACHING RESEMBLES LOVE, MOST PEOPLE KNOW WHAT IT LOOKS LIKE BUT OFTEN FIND IT HARD TO DEFINE.



# Highest Leverage:

High-leverage practices are the fundamentals of teaching. These practices are used constantly and are critical to helping students learn important content.

The high-leverage practices are also central to supporting students' social and emotional development. These high-leverage practices are used across subject areas, grade levels, and contexts.

They are "high-leverage" not only because they matter to student learning but because they are basic for advancing skill in teaching.

# Highest Leverage

Dr. Jim Knight defines Highest leverage teaching practices as those that have the greatest effect on student learning. He has identified four key high-impact areas:

- 1. Classroom management
- 2. Content planning,
- 3. Instruction, and
- 4. Assessment for learning

Dr. Knight has stated that, ""Every year, the computer gets better and better," said Knight, "but we have a lot of teaching practices produced in 1984 that look exactly the same today." Do you agree with his statement?

# Highest Leverage: Classroom Management

Teachers with excellent classroom management skills:

- Provide structure by listing activities and transition times.
- Explicitly teach students their expectations.
- For example, students need to know what kinds of conversation are appropriate during transitions versus group activities or teaching or test taking.
- Praise more than they criticize students.

Knight said our students are like plants in a window that lean toward sunlight. In other words, students respond by acting in ways that gain them more positive reinforcement.

## Highest Leverage: Classroom Management

The coach's role is to look for how teachers are working with students, to measure that, and to help teachers to improve by looking at the data collected. Coaches can observe teachers and ask:

- Are students engaged?
- How many disruptions to learning occur during class?
- How often does the teacher praise students compared with how often she corrects them?
- Do students know how they are expected to act during activities and transitions?

## Highest Leverage: Content planning

Keith Lenz suggests that teachers will be more effective if they are intentional about what they teach. Becoming intentional can involve such activities as developing essential questions for a unit and then mapping lessons for students.

Knight said that, Teachers should vary their questions according to the levels in taxonomies such as those created by Bloom or Costa, with higher-level thinking questions that prompt students to go beyond regurgitating information.

# Highest Leverage: Instruction

Knight makes a distinction between two kinds of learning: mechanical and metaphorical learning.

- Mechanical learning occurs when students learn information that has very clear, correct answers, such as two times two equals four or the names of the five Great Lakes. Mechanical learning, he said, is best taught through an intensive- explicit or direct instruction approach.
- The constructivist approach for "metaphorical knowledge" provides learning opportunities that empower students to make their own sense of what they are learning. Constructivist teaching practices include:
  - Cooperative learning;
  - Experiential and project-based learning;
  - High-level questioning;
  - Journaling and other thinking devices.

## Highest Leverage: Assessment for learning

#### Assessment of learning involves:

- identifying essential questions (this usually happens during the content planning phase);
- determining the correct answers to those questions (which might involve developing short propositional statements or rubrics)
- creating checks for understanding so that teachers and students know how well they are performing
- Knight states that, "Teachers should be able to look at the class and know where every student is and every student should know where they are in terms of progress in class".

# Higher Order thinking: Arthur Costa's Levels of Inquiry

- Costa's Levels of Inquiry is an important aspect of curriculum. Inquiry-based learning focuses on the student as learner, developing skillful, open-ended questioning skills.
- Being able to recognize different levels of questions is beneficial for all students in many areas of learning.
- Understanding the three levels of questions explained below, designed by Costa, is critical for student success

# Higher Order thinking: Arthur Costa's Levels of Inquiry

#### Level One Questions (Text Explicit)

Readers can point to one correct answer right in the text. Words found in these questions include:

- defining
- observing
- describing
- naming
- identifying
- reciting
- noting
- listing

#### Level 1 statement

- Define irony. (English)
- Identify the starting date of the American Revolution. (History)
- Define tangent. (Math)
- Define photosynthesis. (Science)

# Techniques of Questioning

#### A LEVEL ONE QUESTION REQUIRES A PERSON TO:

1) <u>define</u>	What's the definition of "lunar eclipse?" (define)
2) <u>describe</u>	How can we express the equation 2x (4-5y) +3y = 26 in three different ways? ( <u>list</u> )
3) identify	
4) <u>list</u>	
5) <u>name</u>	
6) <u>observe</u>	
7) <u>recite</u>	
8) <u>scan</u>	What does the chart show? (scan)

# Higher Order thinking: Arthur Costa's Levels of Inquiry

#### Level Two Questions (Text Implicit)

Readers infer answers from what the text implicitly states, finding answers in several places in the text. Words found in these questions include:

- analyzing
- grouping
- synthesizing
- · comparing/contrasting
- inferring
- sequencing

#### **Level 2 Statement**

- Compare and contrast Mr. Frank and Mr. Van Daan in Anne Frank: Diary of a Young Girl. (English)
- Analyze the causes of the American Revolution. (History)
- Compare the square root of 49 to the square root of 64. Which is greater? (Math)
- Diagram and order the stages of photosynthesis. (Science)

# Techniques of Questioning

#### A LEVEL TWO QUESTION REQUIRES A PERSON TO:

1) analyze	In <u>Native Son</u> , how does Bigger Thomas' violence against his gang members reveal a deeply rooted fear of people? ( <u>analyze</u> )
2) compare	
3) contrast	In "The Bet" how do the lawyer and the banker differ in their attitude toward capital punishment? (contrast)
4) group	
5) infer	If the moon is full Aug. 17, July 18, and June 19, when will it be full in April? (infer)
6) sequence	
7) synthesize	How does the term "manifest destiny" capture the essence of western expansion in the US? (synthesize)

# Higher Order thinking: Arthur Costa's Levels of Inquiry

## Level Three Questions (Experience Based)

Readers think beyond what the text states.

Answers are based on reader's prior knowledge/experience and will vary. Words found in these questions include:

- evaluating
- judging
- applying a principle
- speculating
- imagining
- predicting
- hypothesizing

#### **Level 3 Statement**

- Predict how Charlie Gordon will change after his operation in Flowers for Algernon. (English)
- Imagine you were a soldier fighting in the Civil War. How would you feel? (History)
- Apply the Pythagorean theorem to the find the measurement of this triangle. (Math)
- Diagram the stages of photosynthesis and predict how long each takes. (Science)

# Techniques of Questioning

#### A LEVEL THREE QUESTION REQUIRES A PERSON TO:

1) apply a principle	Using the principle of the "communicative property." How can we find out the number of apple trees in an orchard having 15 rows, 5 trees each? (apply)
2) evaluate	
3) hypothesize	
4) imagine	
5) judge	Which of the characters in <u>Great Expectations</u> suffered the most? (judge)
6) predict	
7) speculate	In Catcher in the Rye, how might Phoebe, years later, described Holden to her children? (speculate)

#### Comparing the DOK, Bloom, and Costa Frameworks

DOK Levels	Bloom's Taxonomy	Costa's Level of Questioning
Level 1: Recall Information	Remembering: Exhibit memory by recalling information such as facts, terms and basic concepts  Understanding: Demonstrate facts and ideas by organizing, comparing, and stating main ideas	Level 1: Basic Input/ Gathering Information  Complete, Define, Identify, List, Observe, Scan, Select
Level 2: Skills and Concepts	Applying: Use information to solve problems in new situations by applying facts and techniques in different ways  Analyzing: Understanding relationships among concepts or make inferences and find evidence to support generalizations	Level 2: Processing Information  Compare, Distinguish, Infer, Make Analogies, Synthesize
Level 3: Strategic Thinking	Evaluating: Present and defend opinions by making judgments about information, validity of ideas, or quality of work based upon a set of criteria	Level 3: Creating Your Own Ideas  Evaluate, Generalize, Imagine, Predict, Judge, Hypothesize
Level 4: Extended Thinking	Creating: Compile information in a different way by combining elements in a new pattern or proposing alternate solutions	



## What is TTESS?

T-TESS strives to capture the holistic nature of teaching – the idea that a constant feedback loop exists between teachers and students and gauging the effectiveness of teachers requires a consistent focus on how students respond to their teacher's instructional practices.

T-TESS is a process that seeks to develop habits of continuous improvement, and the process itself best leads to that outcome when appraisers and teachers focus on evidence-based feedback and professional development decisions based on that feedback through ongoing dialogue and collaboration.

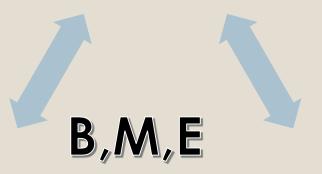
## •Rubric Overview

Four Domains of the T-TESS Rubric			
Planning	Instruction		
<ol> <li>Standards and Alignment</li> <li>Data and Assessments</li> <li>Knowledge of Students</li> <li>Activities</li> </ol>	<ol> <li>Achieving Expectations</li> <li>Content Knowledge and Expertise</li> <li>Communication</li> <li>Differentiation</li> <li>Monitor and Adjust</li> </ol>		
Learning Environment	Professional Practices and Responsibilities		
<ol> <li>Classroom Environment, Routines and Procedures</li> <li>Managing Student Behavior</li> <li>Classroom Culture</li> </ol>	<ol> <li>Professional Demeanor and Ethics</li> <li>Goal Setting</li> <li>Professional Development</li> <li>School Community Involvement</li> </ol>		

## T-TESS Triangle

#### Evaluation Focus

Learner Outcomes



Teacher Behaviors



cause and effect

### •The Rubric

...created by a steering committee comprised of Texas Educators based on best practices and research.



## Effective Elements Summary

- Rigorous and measureable goals aligned to state content standards
- Student engagement and interaction
- Alignment of activities and materials throughout lesson
- Student relevancy
- Teacher displays content knowledge
- Numerous checks for mastery
- Teacher asks probing questions to extend learning
- Evidence of student mastery of the objective
- Differentiation

## •T-TESS Rubric Overview

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- Data and Assessment
- Knowledge of Students
- Activities

Instruction

- Achieving Expectations
- Content Knowledge and Expertise
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- Differentiation
- Monitor and Adjust

Learning Environment

- Classroom Environment,
   Routines, and Procedures
- Managing Student Behavior
- Classroom Culture

Professional Practices and Responsibilities

- Professional Demeanor and Ethics
- Goal Setting
- Professional Development
- School Community Involvement

Communication	I I DITTICTISTOTI Z.JI		
Dimension 2.3 Communication: The teacher clearly and accurately communicates to support persistence, deeper learning and effective effort.  Standards Basis: 1D, 1E, 2A, 3A, 4D  Potential Sources of Evidence: Conferences and conversations with the teacher; formal observations and walkthroughs; student growth processes; analysis of student data  DISTINGUISHED  Establishes classroom practices that encourage all students to communicate safely and effectively using a variety of tools and methods with the teacher and their peers.  Uses possible student misunderstandings at strategic points in lessons to highlight misconceptions and inspire exploration and discovery.  Provides explanations that are clear and coherent and uses verbal and written communication that is clear and correct.  Asks questions at the creative, evaluative and/or analysis levels that require a deeper understanding of the objective of the lesson.  Skillfully balances wait time, questioning techniques and integration of student responses to support student-directed learning.  Skillfully provokes and guides discussion to pique curiosity and inspire student-led  Establishes classroom practices that encourage all students to communicate on the misunderstanding the use of visual tools and technology, with the teacher and their peers.  Anticipates possible student misunderstandings and proactively develops techniques to address obstacles to learning.  Provides explanations that are clear and coherent and uses verbal and written communication that is clear and correct.  Asks questions at the creative, evaluative and/or analysis levels that focus on the objective of the lesson and provoke thought and discussion.  Skillfully provokes and guides discussion to pique curiosity and inspire student-led  Provides explanations that are clear and coherent and uses verbal and written communication that is clear and correct.  Skillfully uses  Provides explanations that are clear and coherent and uses verbal and written communication that is clear and correct.  Skill	PROFICIENT  • Establishes classroom practices that provide opportunities for most students to communicate effectively with the teacher and their peers. • Recognizes student misunderstandings and responds with an array of teaching techniques to clarify concepts. • Provides explanations that are clear and uses verbal and written communication that is clear and correct. • Asks remember,	DEVELOPING  Leads lessons with some opportunity for dialogue, clarification or elaboration.  Recognizes student misunderstandings but has a limited ability to respond.  Uses verbal and written communication that is generally clear with minor errors of grammar.  Asks remember and understand level questions that focus on the objective of the lesson but do little to amplify discussion.	Directs lessons with little opportunity for dialogue, clarification or elaboration.     Is sometimes unaware of or unresponsive to student misunderstandings.     Uses verbal communication that is characterized by inaccurate grammar; written communication that has inaccurate spelling, grammar, punctuation or structure.     Rarely asks questions, or asks questions that do not amplify discussion or align to the objective of the lesson.

#### INSTRUCTION Communication (Dime DISTINGUISHED ACCOMPLISHED CDED Dimension 2.3 · Establishes classroom Communication: Establishes classroom Establ practices that encourage all practices that encourage practices The teacher clearly students to communicate all students to opporty and accurately safely and effectively using a communicate effectively, most s Domain communicates to variety of tools and methods including the use of visual comm support persistence, with the teacher and their tools and technology, with effect deeper learning and the teacher and their teache effective effort. · Uses possible student peers. Anticipates possible misunderstandings at strategic Recogniz Standards Basis: points in lessons to highlight student misunderst 1D, 1E, 2A, 3A, 4D misconceptions and inspire misunderstandings and and responds exploration and discovery. proactively develops an array of teachi Provides explanations that are techniques to address techniques to Potential Sources of obstacles to learning. clarify concepts. clear and coherent and uses that has inaccurate Evidence: verbal and written Provides explanations that Provides explanations Asks remember and spelling, grammar, Conferences and are clear and coherent communication that is clear that are clear and understand level punctuation or conversations with and correct. and uses verbal and uses verbal and questions that focus structure. the teacher; formal · Asks questions at the creative, written communication on the objective of · Rarely asks questions, observations and evaluative and/or analysis that is clear and correct. communication that is the lesson but do or asks questions that walkthroughs; student levels that require a deeper · Asks questions at the clear and correct. little to amplify do not amplify growth processes; learning and broader creative, evaluative Asks remember, discussion. discussion or align to analysis of student understand and apply the objective of the understanding of the and/or analysis levels that data objective of the lesson. focus on the objective of level questions that lesson. · Skillfully balances wait time, the lesson and provoke focus on the thought and discussion. questioning techniques and objective of the Skillfully uses lesson and provoke integration of student discussion. responses to support studentprobing questions directed learning. to clarify, elaborate Uses probing Skillfully provokes and guides and extend learning. questions to clarify and elaborate discussion to pique curiosity · Provides wait time when and inspire student-led questioning students. learning. learning of meaningful and challenging content. TEACHER-CENTERED ACTIONS

INSTRUCTION					
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#### Performance Levels

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			<ul> <li>Uses probing questions to clarify and elaborate learning.</li> </ul>		
	STUDENT-CENTERED ACTIONS				TEACHER-CENTERED ACTIONS

Student-Centered Actions

Teacher-Centered Actions

### "Proficient"

- The term "Proficient" is written in statute; thus, it is also included in the rubric to define rock-solid teaching.
- A campus with predominately "Proficient" teachers is representative of a strong, effective campus where teacher and student performance is strong.
- As teachers embrace the notion that T-TESS is an appraisal process with an embedded development process itself, it will be clear that the "Accomplished" and "Distinguished" performance levels are growth opportunities for the refinement of their professional craft.
- It will take time and attention to recalibrate at the local and state levels. Our messaging is key.
- Once teachers embrace this message, the focus on the scoring label dissipates. When it hasn't, the signal for campus leadership is that the message hasn't been received and embraced.

## •T-TESS Rubric Overview

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- Data and Assessment
- Knowledge of Students
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Instruction

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- Content Knowledge and Expertise
- Communication
- Differentiation
- Monitor and Adjust

Learning Environme nt

- Classroom Environment,
  Routines, and Procedures
- Managing Student Behavior
- Classroom Culture

Professional Practices and Responsibilities

- Professional Demeanor and Ethics
- Goal Setting
- Professional Development
- School Community Involvement

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INSTRUCTION

The teacher sees misunderstandings based on student difficulties and responds with different teaching

There is evidence of twoway communication between the teacher and students, and peer to peer. Messages are sent and received.

#### Questions are at The Teacher albarratory tied Dimension 2.3 Communication students use probing The teacher clearly and accurately questions throughout communicates to support persistence, the lesson to clarify deeper learning and effective effort. content and Standards Basis: Dimension 1D, 1E, 2A, 3A, 4D Provides explanations that Sources of Evidence: are clear and coherent and Pre-Conference. Formal Observation

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#### **Look Fors:**

Two-way communication: T-S and P-

communication are

evident in various

- **Anticipating misunderstandings**
- Verbal and written communication
- **Questioning/wait time**
- Technology/visual tools

## Look Fors

Achieving Expectations	<ul> <li>High, challenging expectations</li> <li>Mastery of the objective</li> <li>Student mistakes/self-corrections</li> <li>Student initiative/self-monitoring</li> </ul>
Content Knowledge and Expertise	<ul> <li>Content knowledge in multiple contexts</li> <li>Objectives tied to other disciplines (Cross-disciplinary)</li> <li>Anticipating misunderstandings and teaching techniques</li> <li>Thinking/HOTS – Higher Order Thinking Skills</li> <li>Sequencing and linking instruction</li> </ul>
Differentiation	<ul> <li>Individualized lessons</li> <li>Monitoring participation and performance</li> <li>Differentiated content and methods (process)</li> <li>Recognizing confusion and disengagement</li> </ul>

## •Look Fors

Monitor and Adjust	<ul> <li>Monitor and adjust instruction and activities</li> <li>Adjustments to maintain engagement</li> <li>Monitors "Behaviors"</li> </ul>
	<ul><li>Checking for understanding</li><li>Questioning and academic feedback</li></ul>

Classroom Environment, Routines and Procedures	<ul> <li>Procedures, routines and transitions</li> <li>Management of supplies/equipment</li> <li>Safety and organization</li> </ul>
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## Scripting Hints and Tips

1. Time

∘7. Label

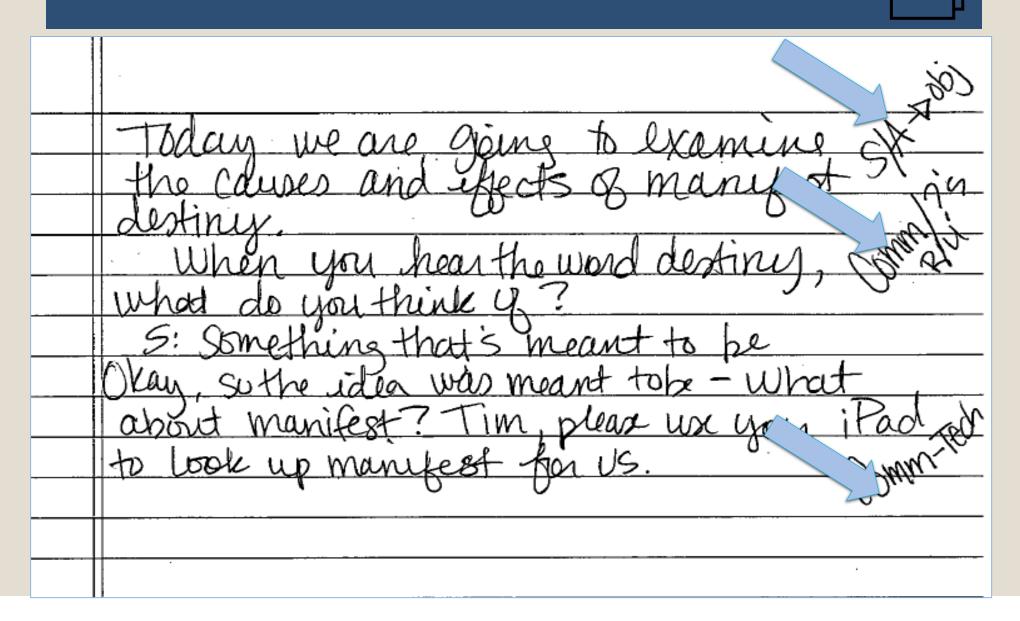
2. Abbreviate

∘8. Lesson Analysis

3. Verbatim

- 9. Circulate
- 4. Parenthesis/Paraphrase
- 5. Questions, Answers and Feedback
- 6. Upfront Summary

# •Sample Evidence Collection Notes



### Collective Evidence is Essential

#### Detailed Collection of Evidence:

Unbiased notes of what occurs during a classifican esson.

- Capture:
  - what the teacher says
  - what the teacher does
  - what the students sa
  - what the stude of
- · Copy wc disa visuals used to nothe lesson.
- Record tingegments of the original original

The collection of departs of vidence is ESSENTIAL for the observation process to be implemented accurately, fairly, and for the intended purpose of the process.

#### View a Lesson

#### Watch the following less and score the following:

- Content Knowledge and Expertise
- Monitor and Adjust
- Classroom culture

7th Grade

Math

38:07

