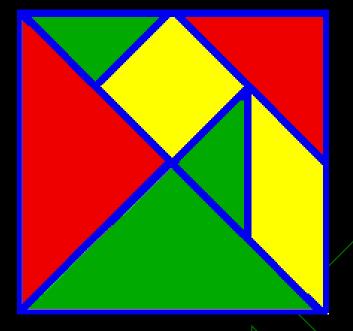
Tests for Higher Standards:

Linking
Curriculum,
Instruction,
and Assessment





What is a tangram?



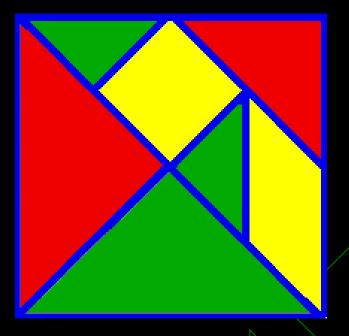








What is a tangram?



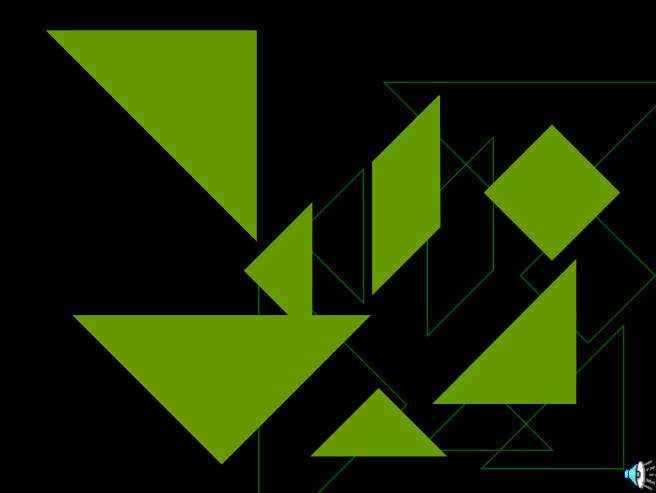




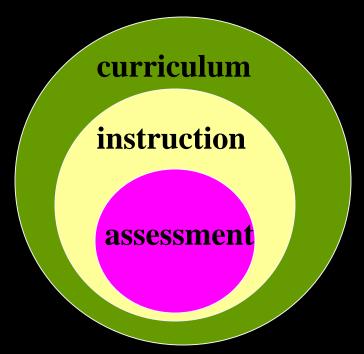




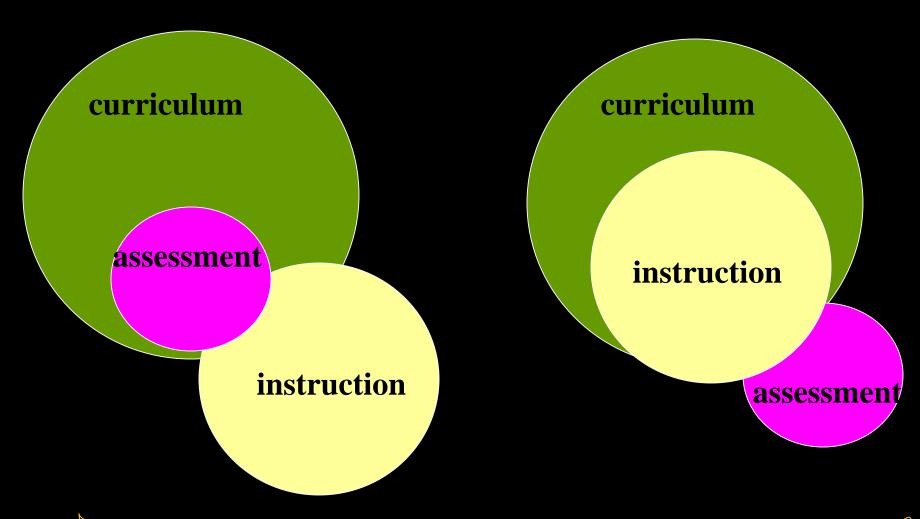
How are TfHS assessments like a tangram?



Curriculum Alignment



Classroom instruction and assessment must remain aligned with pacing guides, curriculum documents, and State blueprints



What's wrong with these pictures?

Diagnosis and Assessment of Student Learning

◆ Assessments are More Than Tests

Diagnosis and assessment of student learning ensure that students have mastered the objectives taught during a specified time period and that instruction is refined and fine-tuned based on the results."

◆ Assessment Takes Many Forms

 Pre-tests, post-tests, cumulative review tests, practice and simulation tests, teacher-made tests, warm-ups, homework, snapshot assessments, benchmark assessments

Diagnosis and Assessment of Student Learning

* Assessment Has Many Uses

- Assessment is a part of teaching
- Assessment, instruction and curriculum are interrelated in every lesson
- Assessment should diagnose a student's strengths or needs
- Assessment can provide feedback to the student and motivate him to achieve
- Assessments support and assess the mastery and retention of subject matter and determine the need for re-teaching, remediation or enrichment
- Assessment informs and guides instruction

Why Tests for Higher Standards?

- Provide valid, reliable SCCCR and PASS tests to help teachers and administrators diagnose the strengths and weaknesses of individual students
- Allow for great flexibility of use
- Provide a comprehensive standards-based approach to the assessment-planning-teaching process
- Utilize a comprehensive diagnostic system for student learning of the SC standards



User Guide

Mathematics, English/Language Arts, Science, and Social Studies

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http://www.tfhs.net/

User Guide

Tests for Higher Standards - South Carolina User Guide

TABLE OF CONTENTS

ľ	/ERVIBA:1
	Test Publishers2
	About the Publishers2
	Publishers' Acknowledgements3
	Test Authors3
	Contributors4
	GRADE-LEVEL TESTS -
	RATIONALE, DESCRIPTION, AND
	DEVELOPMENT
	Meeting the PASS and EOCEP
	Challenge5
	Test Coverage of our PASS and
	EOCEP Assessments5
	Test Description5
	Testing the Tests6
	Using the Tests6
	Pre- Post Testing6
	End-of-Year Testing7
	Mid-Year Testing7
	End-of-Unit Testing7
	Nine-Weeks Testing7
	Simulation7
	Practice Testing and Instruction8
	Grades K-18
	Grade 29
	Facts Tests: Grades 1 and 39
	Notes for Teachers9
	Using the Pre-Post Test Model9
	Before You Test9
	The Classroom Matrix10
	Skill Maintenance10
	And If the Scores Are Low10
	Planning for Testing10
	On the Day You Give the Test10
	Contact Us 10

Scoring and Reporting	.11
Directions for Hand-Scoring the	
Grade-Level Tests	.11
Individual Response Sheet	
Classroom Matrix	
Post Testing	
Additional Assessment	
Heina Seanners and Online Secrina	
and Reporting	. 12
Reports Online System (ROS)	. 12
Administrative Support	
and Involvement	. 13
General Testing Considerations	
Strengths	. 13
Limitations of These Tests	
Limitations of All Multiple-Choice Tests	90000
Tests	. 14
Current Testing Materials	. 14
Customizing Tests for Your	44
District	. 14
II. ITEM BANKS	. 15
Description	. 15
Answer Keys for Item Banks	. 15
Uses	. 15
Making Benchmark and Snapshot	
Tests	. 16
Using the Item Banks for	
Using the item Banks for English/Language Arts	. 17
Inree Helpful Steps:	. 17
Gather the Information	
2. Sort the Information	
3. Analyze the Information	
III. EOCEP EXAMS	
End-of-Course Tests	. 18
IV. RESEARCH ON ASSESSMENT	.19

- ► FACT: The most powerful single modification that enhances achievement is feedback. The simplest prescription for improving education must be "dollops of feedback".
 - TESTS FOR HIGHER STANDARDS, through simulation tests/grade level, 9-week tests, and ongoing assessments such as TfHS's Item Banks, provide "dollops of feedback" that is based squarely on the State's standards and only on the State's standards.
 - Maximum Potential Gain: 35%

- ◆ FACT: Students need assessments that will tell them what they are doing is correct and what is incorrect. They need to know how to correct the performance and work on it until they do.
 - TESTS FOR HIGHER STANDARDS provide diagnostic data so that the student and teacher will know specifically what needs correcting and the related assessment tools to determine the performance in question is correct. The feedback needs to be standards specific to maximize student gains.
 - Maximum Potential Gain: 30%

- ◆ FACT: Assessment results need to be immediate. The greater the delay the less impact there is on achievement.
 - TESTS FOR HIGHER STANDARDS provide assessments that allow for immediate feedback. There are several ways for this to happen depending on the scoring technique the teachers opt to employ: hand scoring, Scantron, online, student scoring, etc.
 - Maximum Potential Gain: 20%

- ◆ FACT: Corrections should be specific to the task/objective.
 - TESTS FOR HIGHER STANDARDS identify the specific standard that each and every test item measures. The standard is coded next to every item on each and every TfHS test. This better enables the teacher to assist the student in making specific corrections of specific, individual standards.

- ◆ FACT: Students could use TfH5's Classroom Matrix to know and evaluate their progress.
 - TESTS FOR HIGHER STANDARDS offer the student a means of mapping and/or seeing their own progress. For grade level pre-post tests and simulation tests, there is an individual student profile and related Classroom Matrix that demonstrates what the student knows and the related ongoing progress or lack thereof.

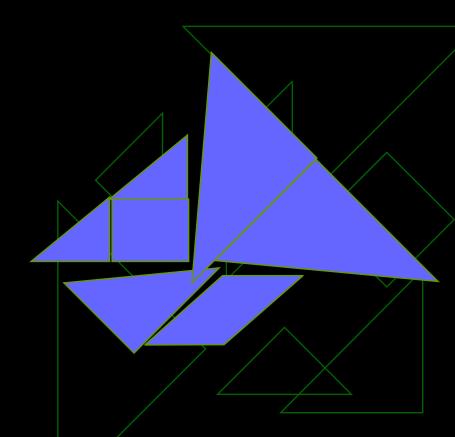
Two Products to Improve Student Achievement

- ◆ Grade Level Tests
 - Grades K-8 and End-of-Course

- ◆ Item Banks
 - Grades K-8 and End-of-Course



Grade Level Tests



TESTS FOR HIGHER STANDARDS

MATHEMATICS

South Carolina College- and Career-Readiness Standards

GRADE LEVEL TEST

Grade 7 Pre-Test

Dr. S. Stuart Flanagan, Professor Emeritus College of William and Mary

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Tests for Higher Standards in Mathematics Grade Level Test Pre-Test

Grade 7 SCCCR-Math

1. John made a chart showing the number of protons (positive charge) and electrons (negative charge) in a carbon atom. If he adds them together, what will the total charge be?

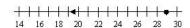




- В -16
- C 16
- D 0

N5.1b

2. Look at this number line.



What number belongs in the blank?

- A -11
- В -10
- C 10 D 11

Using Data to Inform Instruction

Let's Look at a Sample Classroom Matrix



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TfHS Grade Level Tests

 Four core areas, K-8 grade level tests and high school End-of-Course Tests

 New tests for the SCCCR English and Math standards

 Tests for the SC Academic Standards in Science and History continue

TfHS Grade Level Tests

- Developed to help teachers focus instruction on the content and processes of the SC standards
- Criterion-referenced, four alternative, multiple choice tests with open-ended items
- 60-80 items per test/2-6 items per Standard
- Administered as a whole or in chunks

Using the TfHS Grade Level Tests

- Can be used before or after instruction to determine the progress of learning
 - Students who take a TfHS Grade Level Test as a pretest at the beginning of a school year should take the test designed for that grade level
 - Teachers could choose to use the TfHS Grade Level Test for the previous, just completed grade level as a diagnostic tool
 - Provides a class profile telling what needs the whole class has and specific needs of each student
 - Grade level tests may also be used to create benchmark tests, end-of-year tests, nine weeks tests, semester exams, unit tests

End-of-Year/Mid-Year Testing Using the TfHS Grade Level Tests

- The grade level tests may certainly be used as a portion of a local division-or teacher written mid-year, nine weeks, unit test, benchmark test or final examination
 - The grade level tests could be supplemented with locally relevant assessment
 - Any customization applied to any TfHS test must leave all copyright notices intact and must indicate that the test is a special form of the original TfHS product
 - Test items which are modifications or close adaptations of the TfHS test items remain the copyright of TfHS, as per copyright law
 - Other test items remain the property of the copyright owner

Practice Testing and Instruction Using the TfHS Grade Level Tests

Any use of the TFHS Grade Level Tests will do at least two things:

- Provide students with practice for the state-mandated tests
- Give teachers the chance to see SC standards content embodied in actual test items

Some tests, such as writing and reading, will be useful as instructional texts:

- Writing tests contain writing passages and answer choices that can become useful subject matter for class discussion
- Reading tests contain literature, both old and new, that may supplement other class reading
- Reading tests may help to build stamina for students taking the SC tests

Strengths and Limitations of the TfHS Grade Level Tests

Strengths:

- Simulate the experience of taking the statemandated SC test
- Provide pre- and post-data about individual students and whole classes- student gains and teacher gains
- Provide diagnostic information about individual students on individual standards
- Provide a focus for instruction

TfHS Grade Level (Simulation Tests)

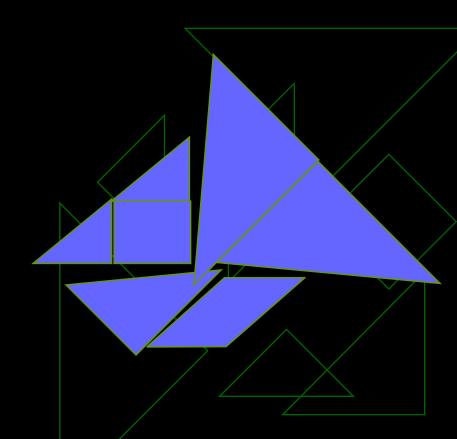
 Grade level tests can be given toward the end of the school year as a preview of the State tests for grades 3-8 and end-of-course.

Recommended Uses for TfHS Grade Level (Simulation Tests)

- Give the grade level (simulation tests) under the same conditions that the State requires (utilize similar ancillary materials, etc.)
 - About five days prior to the State tests
 - Work through the results with students and have them psychologically ready for the real test (will provide limited time to carry out a diagnostic remediation strategy)
 - Ease test anxiety
 - Teach test-taking strategies
 - Two to four weeks before the State tests
 - Use the results to develop a diagnostic remediation crash program
 - Toward the last of the first semester
 - Use the results to develop a combination remediation program and an augmented, regular instructional process
 - Remediate the weak spots in already covered content and ensure coverage of uninstructed areas

Reflection and Questions about...

Grade Level Tests





Item Banks



Tests for Higher Standards in Science South Carolina MiniTest Biology Standard B

Standard	B-4 N	Aolecular 6 8 1	Basis	of Here	ditv

- 1. Which scientist shared the Nobel Prize with James Watson and Francis Crick for the development of the Double Helix model of DNA structure?
- A Rosalind Franklin
- B Linus Pauling
- C Maurice Wilkins
- D Max Planck

B-4.1

Which of the following would be the complementary DNA strand to the strand shown?

ATGGAGATG

- A ATGGAGATG
- B TACCTCTAC
- C UACCUCUAC
- D ATCCTCATC

B-4.1

- 3. Which of the following is NOT a component of a DNA nucleotide?
- A adenine
- B deoxyribose sugar
- C uracil
- D phosphate

D.4 1

4. Which of the following would be the complementary mRNA strand to the DNA strand shown below?

TGACCGCCGTATAAA

- A ACUGGCGGCAUAUUU
- B ACTGGCGGCATATTT
- C TGACCGCCGTATAAA
- D ATGCCCGTGCGATGC

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Tests for Higher Standards in Social Studies South Carolina Mini Test Item Bank Grade 2 2-3

221

Use the story in the box to answer the next question.

Mrs. Warren has \$20. She is going to the grocery store. She will buy eggs, bread, and milk.

- 3. Mrs. Warren is a ______.
- A consumer
- B producer
- C service

2.3 1

Use the story in the box to answer the next question.

Mr. Barton owns a farm. He grows tomatoes, watermelons, strawberries, and pumpkins. He sells the food he grows to people in a nearby city.

- Mr. Barton is a ______.
- A consumer
- B producer
- C service

Item Banks

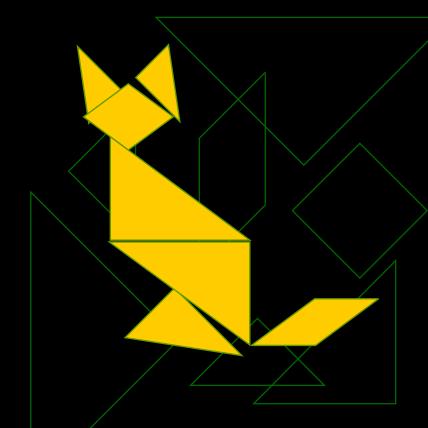
- Item Banks exist for all content areas, for all grades, all end-of-course test areas
- Enough items were developed to evaluate the various components of each SC standard so that a teacher could make a reliable judgment about a student's individual achievement
- Most banks contain 300-500 items
- Each item is a stand-alone Word document and can be modified

Uses for Item Banks

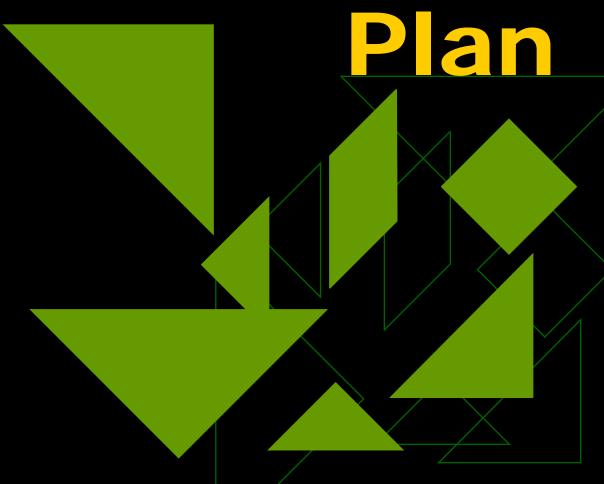
- Resource to teachers, parents, tutors, and others who are assisting with student learning
- Overhead transparencies can be made and used to either illustrate teaching points or to administer an assessment, without having to print a large number of pages
- Selections from several banks can easily be combined into one test
- ◆ EXCELLENT source of questions needed for developing benchmark and snapshot assessments

Reflection and Questions about...

Item Banks



District Implementation



Implementation Plan

- Phase I: Dissemination of materials, review of components, general and immediate uses
- ◆ Phase II: Content specific strategies and uses
- Phase III: Preparation for simulation tests/posttests, using the data for remediation, remediation strategies
- ◆ Phase IV: Summer Session uses

Administrative Support and Involvement

- Supply testing materials to teachers, along with Classroom Matrices and Time/Sequence Planning Charts
 - Materials can be loaded on your school server
 - Materials can be copied on individual computers as long as materials are destroyed at the end of summer session
- Determine an assessment plan for your school
- Determine suitable plans to interact with teachers about initial test results, plans, and progress throughout the year

Administrative Support and Involvement

- Assist teachers as they develop appropriate class assessments for evaluating student achievement throughout the school year
- Assist teachers in providing remediation to students
- Review the item analysis on each assessment with the grade level and/or individual teacher...make sure that teachers are connecting assessing, analysis, and planning for instruction

Cost-cutting tips

- Classroom sets of materials
 - Not writing on tests

- Using Scanners and Online Scoring and Reporting
 - Online scoring: <u>www.rosworks.com</u> is available for TfHS content

Creating Benchmark and Snapshot Assessments



Creating Benchmark and Snapshot Assessments

- The teacher can use periodic cumulative review to support and assess the mastery and retention of subject matter and to determine the need of:
 - reteaching
 - remediation
 - enrichment

Creating Benchmark and Snapshot Assessments

- Study your district pacing guides to decide which standards are to be covered.
- Select items from the TfHS Item Banks.
- Use the templates provided on the TfHS CD.

SOL

8.9 8.8

8.9 8.7

8.12

SOL 8.12

8.13

First Nine Weeks

SOL	Topic	Section		
8.1	Order of Operations	1.4		
8.5	Powers and Squares Roots	1.3, 9.1		
8.1, 8.4	Evaluating Algebraic Expressions Exploring Data: Tables and Graphs	1.5, 1.6		
8.1	Simplifying Numerical Expressions	2.1, 2.2		
	Solving One-Step Equations	2.3-2.9		
8.3	Solving Practical Problems Involving Integers	3.1-3.8		
8.15	Solving Multi-Step Equations	4.1-4.5		
8.17	Solving Problems Using Formulas and Functions	4.6-4.8		

Second Nine Weeks

SOL	Topic	Section
8.1, 8.3	Solving Practical Problems Involving Rational Numbers	6.1-6.8, 7.1-7.5
8.1, 8.3	Solving Practical Probolems Using Percents	7.6-7.9
8.1, 8.3,	Using Ratios and Proportions	8.1-8.6
8.2	Subsets of the Real Number System	9.2, p.450
8.10	Pythagorean Theorem	9.3-9.4
8.6	Relationships Between Angles	10.1-10.4

Third Nine Weeks

ALIGNED CURRICULUM

"Teachers working in teams - grade levels, departments or other groups - are constantly connecting and aligning what is written, taught and tested to improve student achievement."

> -Donna Dalton Director of Curriculum and Instruction

TEAMWORK!



Let's Try It!

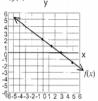
CUMULATIVE REVIEW...

1. Consider the following graph of g(x).



Which is not a zero of the function?

- **F** x = -4
- $G \quad x = -1$ $H \quad x = 0$
- $\mathbf{J} \quad x = 0$
- 2. In the graph below, what is the slope of the line, f(x)?



- A $\frac{3}{2}$
- $\mathbf{B} \frac{3}{2}$
- c -
- D $-\frac{2}{3}$

3. Which graph illustrates direct variation?



- c A
- н у х
- , ,



Shoot for the moon by creating your own spiraled cumulative review and watch student success shine!!!!!

Practice Test-Taking Strategies All Year Long

- Practice highlighting, underlining or circling key words or important details in the stem
- Ensure students can apply various strategies to solve different kinds of problems
- Ensure students understand the mechanics of test-taking, such as the need to follow instructions and check their work



You Do the Math!

- Say you commit to try spiraled cumulative review
 - 4 days a week
 - 3 multiple choice problems per day
 - How many questions reviewed per week?
 - How many questions reviewed per month?
 - After 5 months your students will have reviewed how many questions?
 - Given that simulation tests have approximately 50 questions, how many simulation tests will your students have experienced over a period of five months?



But I Just Don't Have Time to Create Quality Assessments!

PROBLEM

- Valid test items are difficult to write
 - The item writer must have a thorough knowledge of the instructional objectives, content, students' levels of development and technical skills in item writing

 Spiraled cumulative reviews take too much time to create

SOLUTION

- Use valid test items created by the experts
 - TfHS Item Banks

◆Use the cut-and-paste technique...you are just a clip or two away from great spiraled cumulative review items

Have Some Fun by Reinforcing Effort and Providing Recognition

Shoot for the Moon! Cumulative Review Points



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

http://www.mrsperkins.co m/files/100chart.doc

Let's Try It!

explain why you eliminated one of your choices

Justify your answer

Creative Ways to Assess Students

Games

- Jeopardy
 - http://www.hardin.k12.ky.us/res_techn/download/blan kjeopardy.ppt
- Who Wants To Be A Winner
 - http://www.teachnet.com/lesson/misc/winnergame022 500.html
- Self-Directed Learning Kits
 - Self-manage
 - Self-monitor
 - Self-modify

How are TfHS assessments like tangram pieces?



Develop your <u>individual</u> plan for your school, your teachers, your students











We believe...

- What we assess and how we assess communicates what we value.
- Assessment should be learning opportunities for students not intrusions into instruction.
- 3. Assessment should give timely feedback on student achievement as well as on the effectiveness of instruction.
- 4. Assessment should reflect what is important to learn rather than what is easy to assess.
- 5. Assessment is ongoing and based on multiple sources of evidence.



TO BE A WINNER,

GIVE ALL YOU'VE GOT