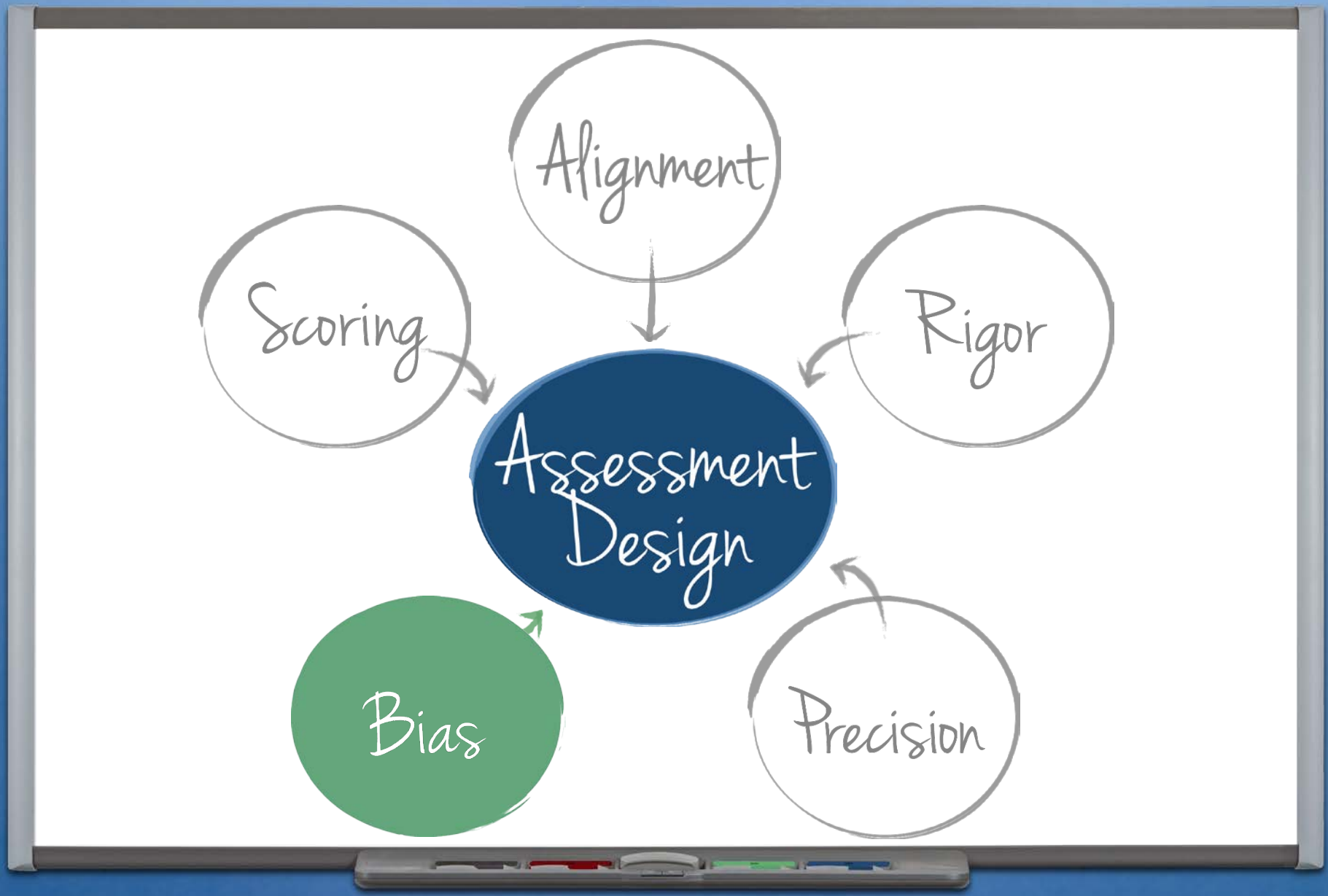
BIAS

Bias

How to Detect Bias

KEY CONCEPTS



INTRODUCTION AND PURPOSE

Describe what BIAS means for the purpose of these modules

Detect POTENTIAL BIAS in assessment items

KEY CONCEPTS

KEY CONCEPTS

Bias

How to Detect Bias

bias

when an assessment provides an advantage or disadvantage to groups of students because of their personal characteristics, such as race, gender, socioeconomic status or religion

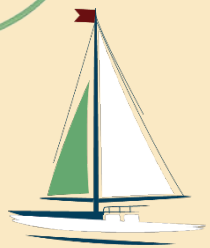
Sources: Kansas State Department of Education, "Assessment Literacy Project;" Ohio Department of Education, "Assessment Literacy: Identifying and Developing Valid and Reliable Assessments" (2013); Relay Graduate School of Education, *Designing and Evaluating Assessments* (2014); and Rhode Island Department of Education, "Deepening Assessment Literacy;" Gerunda Hughes, interview with the Reform Support Network (July 22, 2014).

KEY CONCEPTS

Bias

How to Detect Bias

Reading Comprehension



Reading Comprehension

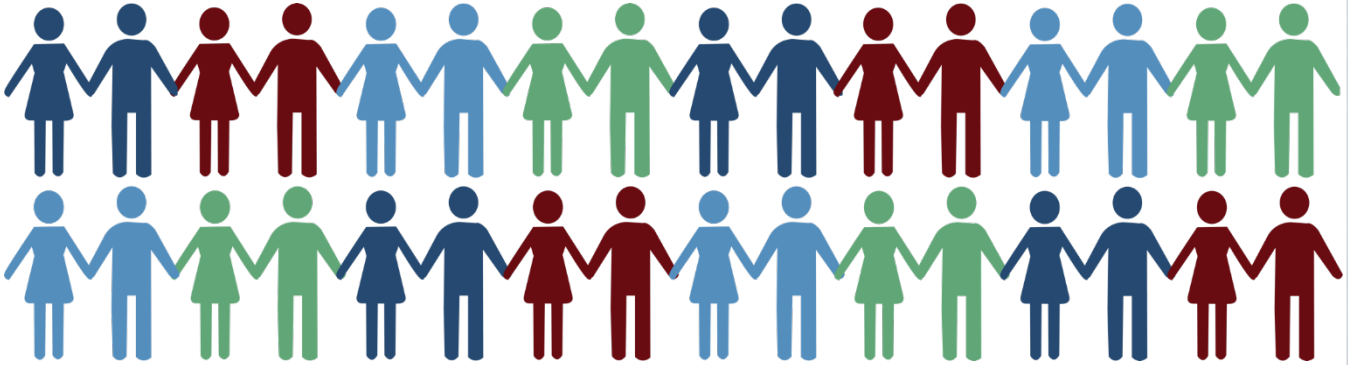
Familiarity with Sailing

Socioeconomic Status

KEY CONCEPTS

Bias

How to Detect Bias



We detect bias at the group level,

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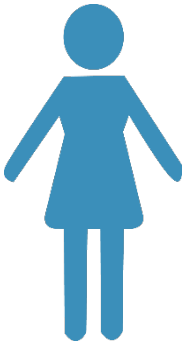
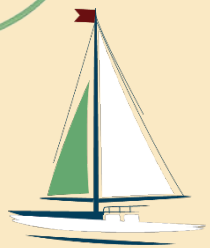


KEY CONCEPTS

Bias

How to Detect Bias

Reading Comprehension



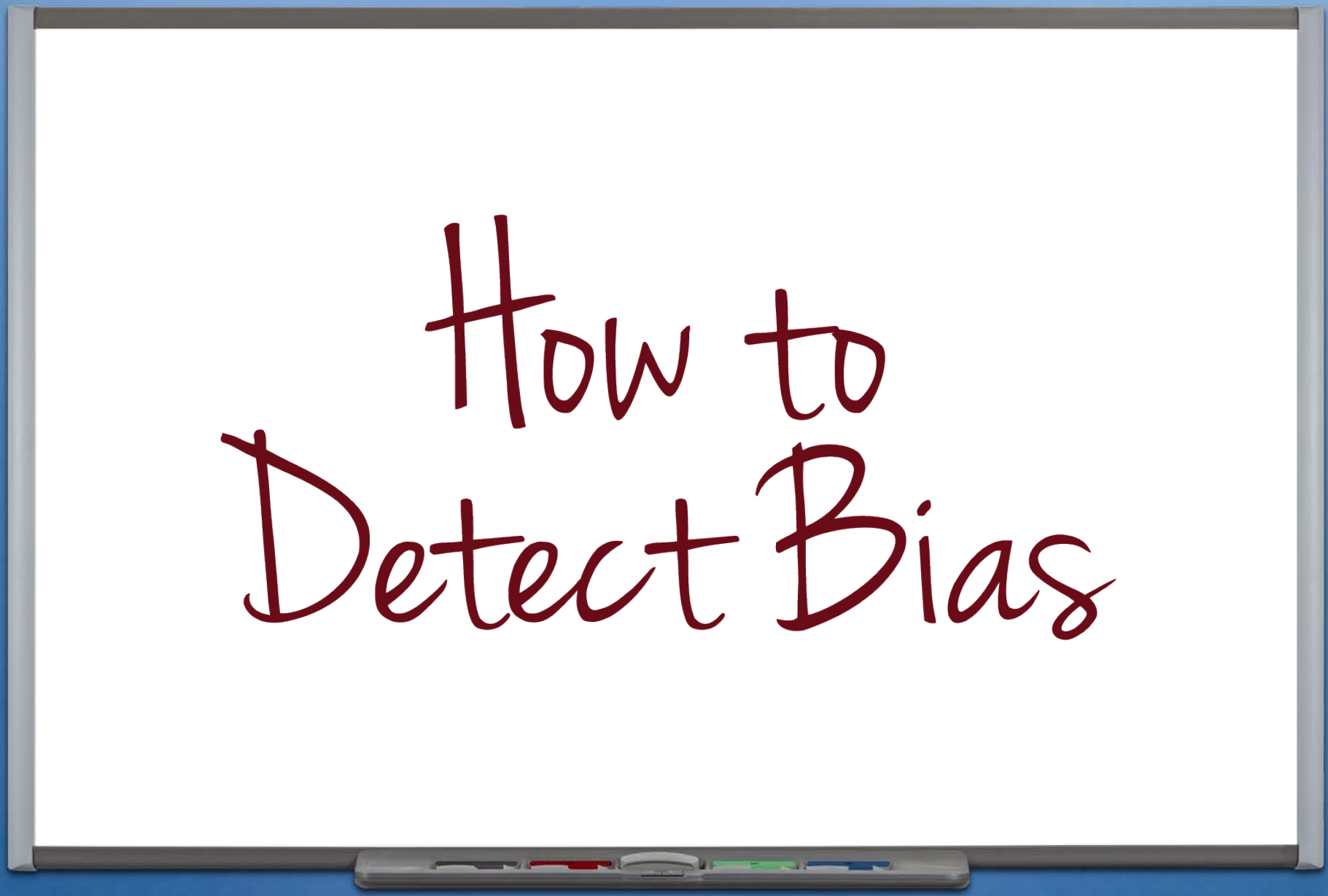
Reading Comprehension

Familiarity with Sailing

Socioeconomic Status

Source of Bias

KEY CONCEPTS



KEY CONCEPTS

Bias

How to Detect Bias

Assessment Item

Which of the following measures could be the length of a typical hole in a golf course?

a. 300 inches
b. 300 feet
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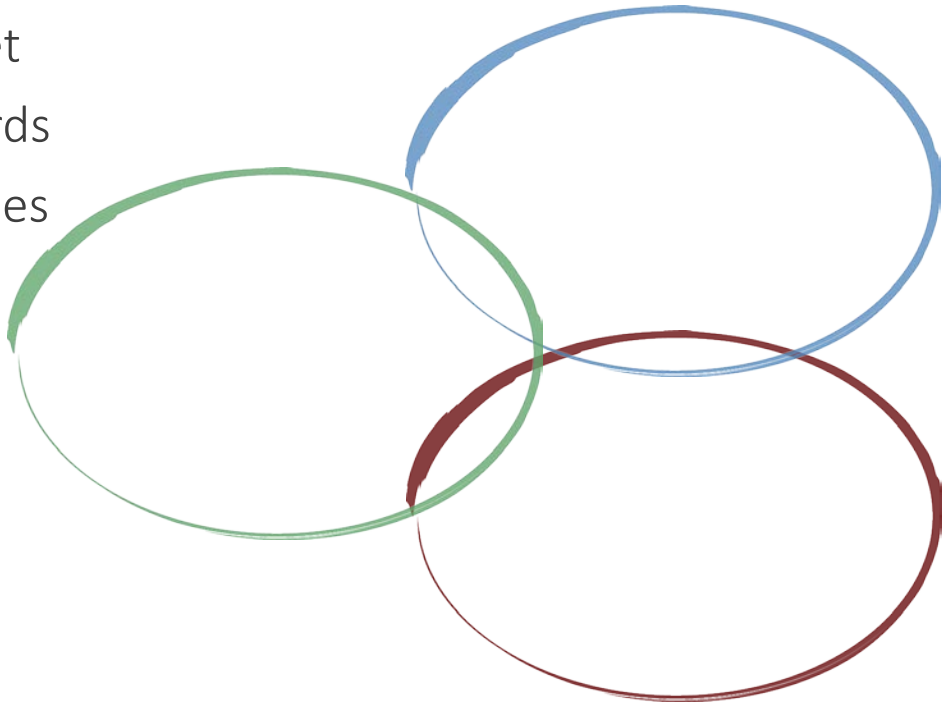

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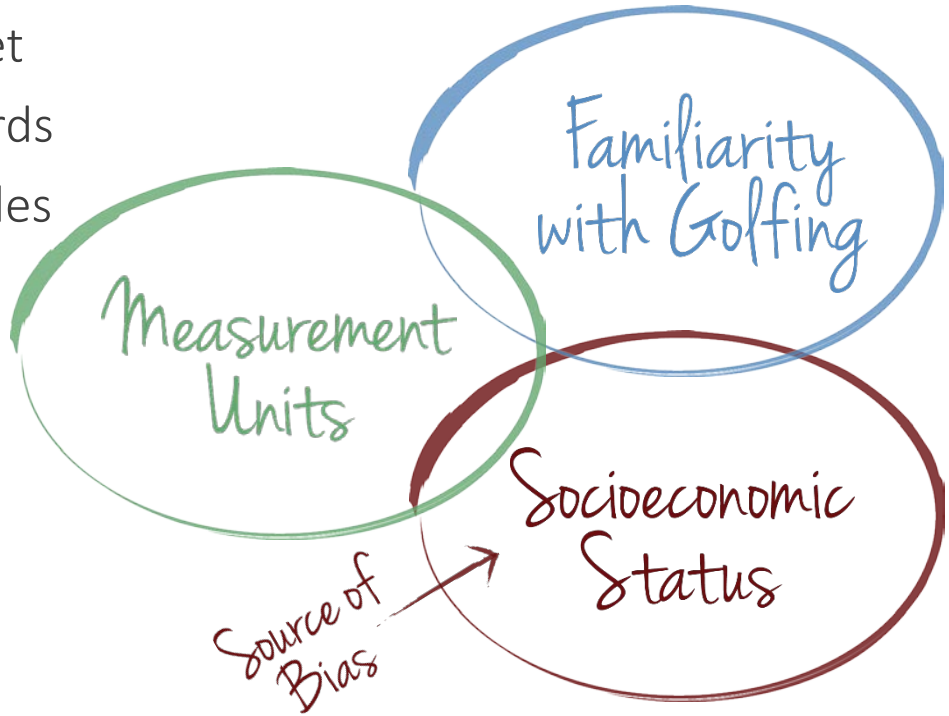


KEY CONCEPTS

Bias

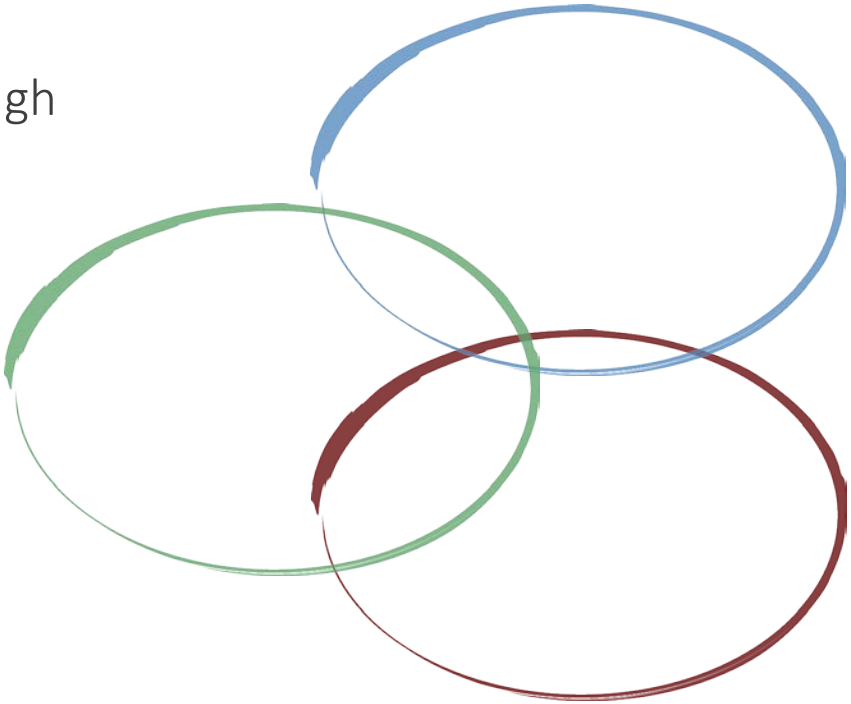
How to Detect Bias

Assessment Item

Choose the conjunction that completes the sentence.

Quarterbacks are often sacked during games _____ they do not have a good offensive line.

a. even though
b. although
c. in spite of
d. because



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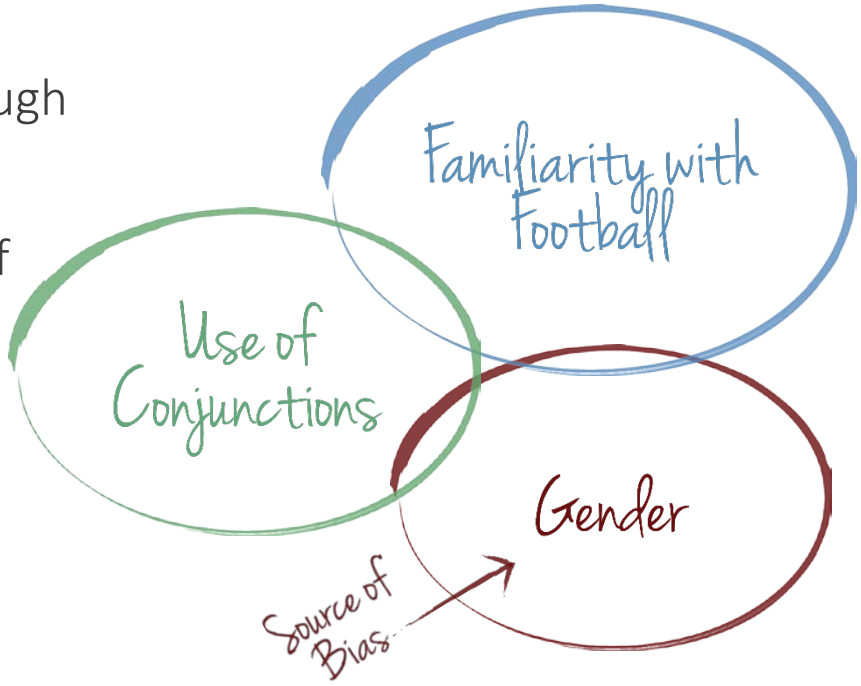


KEY CONCEPTS

Bias

How to Detect Bias

Assessment Item

Choose the conjunction that completes the sentence.

Football quarterbacks, who line up directly behind the offensive line, are often tackled during games _____ they do not have a good offensive line.

a. even though
b. although
c. in spite of
d. because

KEY CONCEPTS

Bias

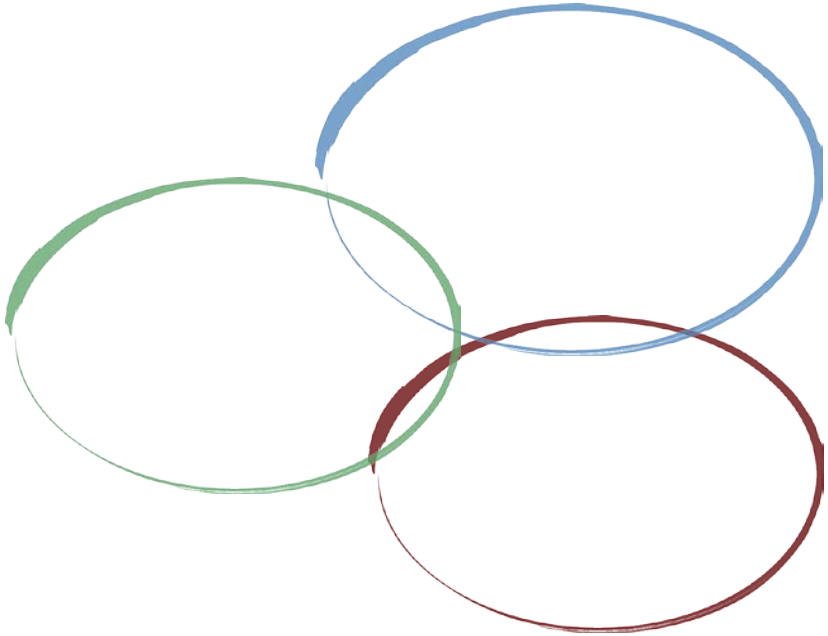
How to Detect Bias

Assessment Item

Choose the <u>one</u> answer that best solves the problem.

If one card is taken at random from a deck of playing cards, what is the probability that the card will be an ace?

a. 8 percent
b. 50 percent
c. 25 percent
d. 10 percent



Source: New Jersey Department of Education. *SGO 2.0—From Compliance to Quality. (*2014).

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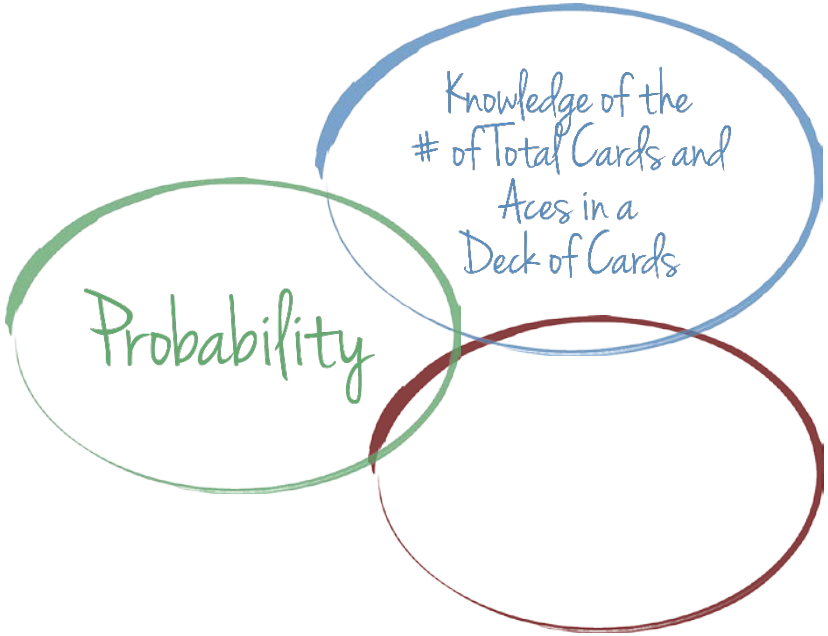

KEY CONCEPTS

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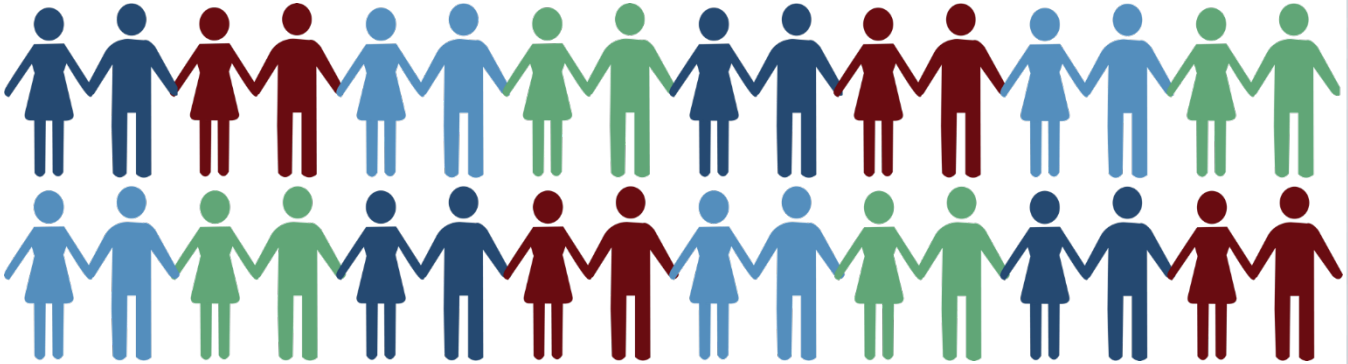
How to Detect Bias



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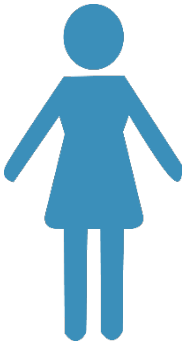

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Assessment Item

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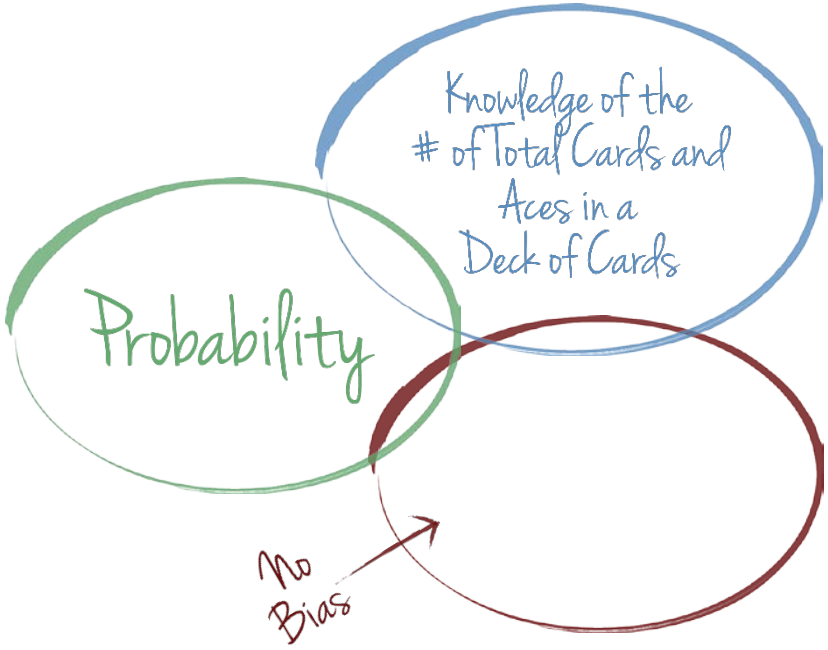

KEY CONCEPTS

Bias

How to Detect Bias

Assessment Item

Mr. Torres sold a total of 30 boxes of sports cards at his store on Monday. These boxes contained only baseball cards and football cards.

Each box contained 25 sports cards. He earned $3 for each sports card he sold. He earned a total of $1,134 from the football cards he sold.

What amount of money did Mr. Torres earn from the baseball cards he sold? In the space below, use pictures, numbers and/or words to show how you got your answer.

Source: Oregon Department of Education, "Grade 4 Mathematics Sample ER Item Claim 2."

KEY CONCEPTS

Bias

How to Detect Bias

Assessment Item

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No Bias

KEY CONCEPTS

Bias

How to Detect Bias

Assessment Item

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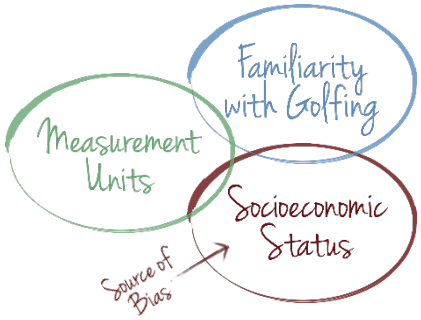

Assessment Item

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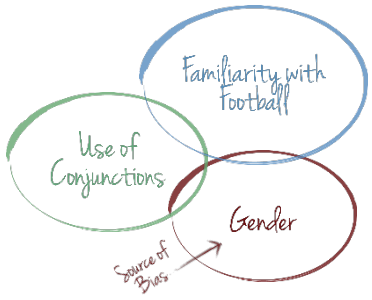

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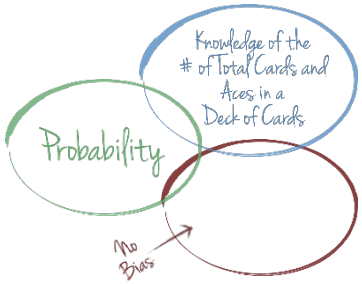
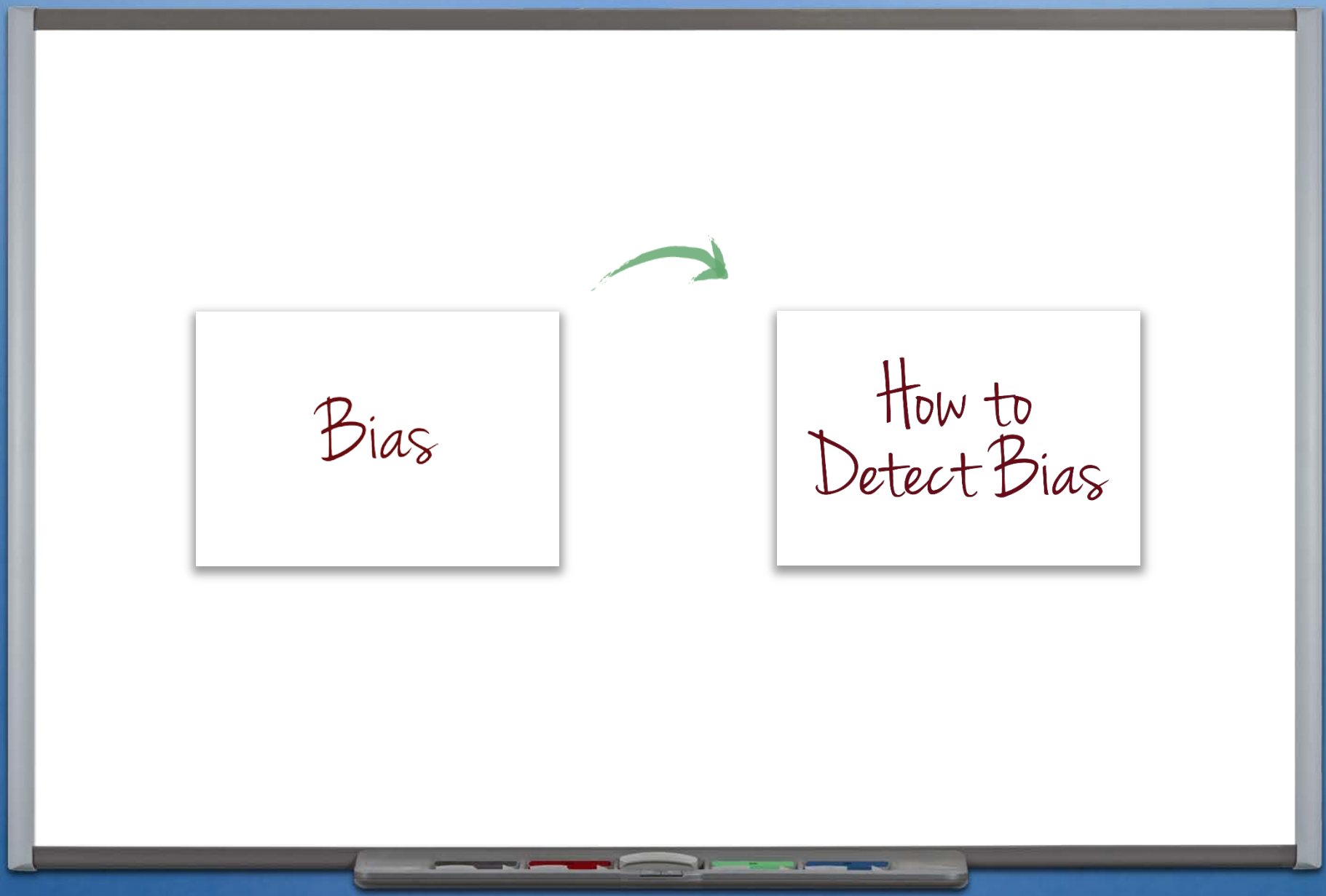


Reasonable Amount of Time
Identifying Systematic Advantages and Disadvantages

CHECK FOR UNDERSTANDING



CHECK FOR UNDERSTANDING

Describe what BIAS means for the purpose of these modules

Detect POTENTIAL BIAS in assessment items

CHECK FOR UNDERSTANDING

Assessment Item

CHECK FOR UNDERSTANDING

Assessment Item

1. Which of the following is most likely an example of bias in an assessment item?
   a. An assessment item that is too rigorous for some students
   b. An assessment item that assumes knowledge of religious traditions
   c. An assessment item that includes typos and grammatical mistakes
   d. A social studies assessment item with a political cartoon

CHECK FOR UNDERSTANDING

Assessment Item

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CHECK FOR UNDERSTANDING

Answer

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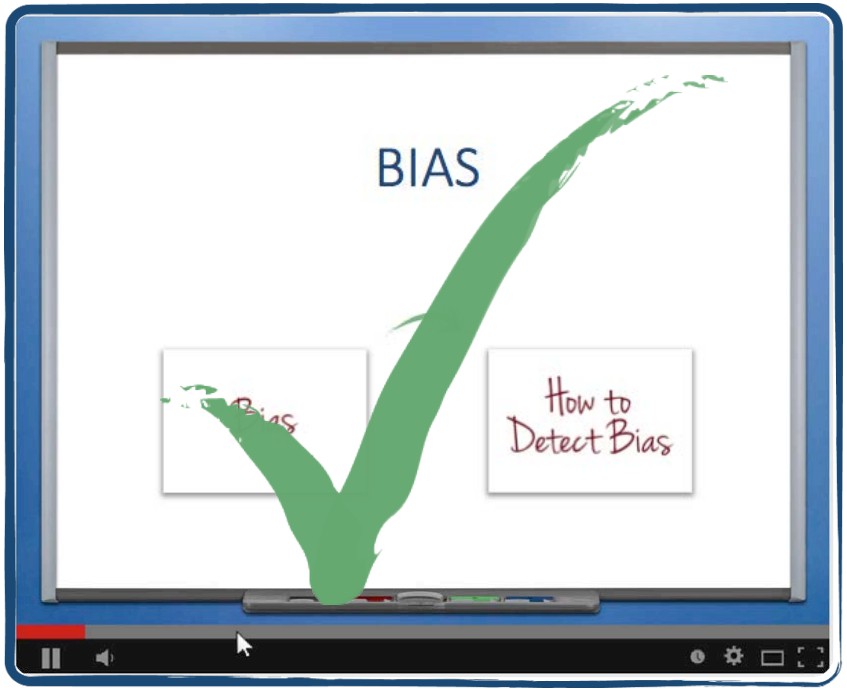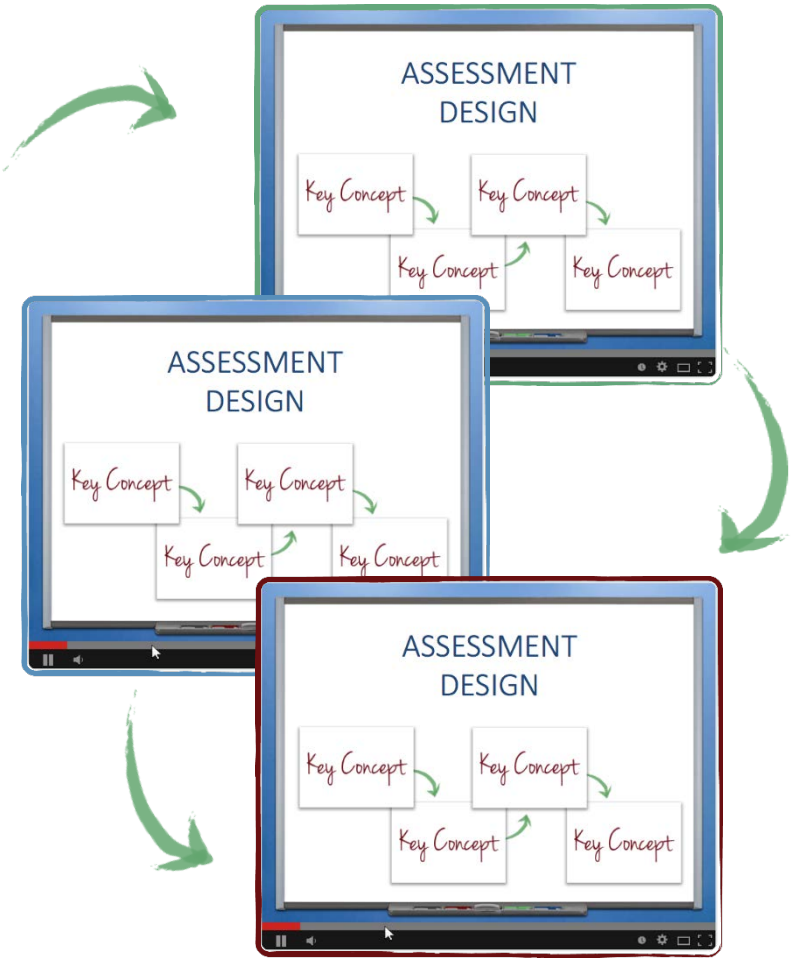
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