

A stylized graphic of a DNA double helix. The left strand is blue, the right strand is green, and the base pairs are yellow. The graphic is positioned on the left side of the slide, partially overlapping the white background and the blue header area.

*Responsive Instruction for Emergent
Bilingual Learners in Biology Classrooms*

RIEL Biology

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CADRE webinar:
Culturally Relevant and Responsive Science Instruction

Why RIEL Biology?



Hillsborough County

21,500

EB Students

COLLIER COUNTY



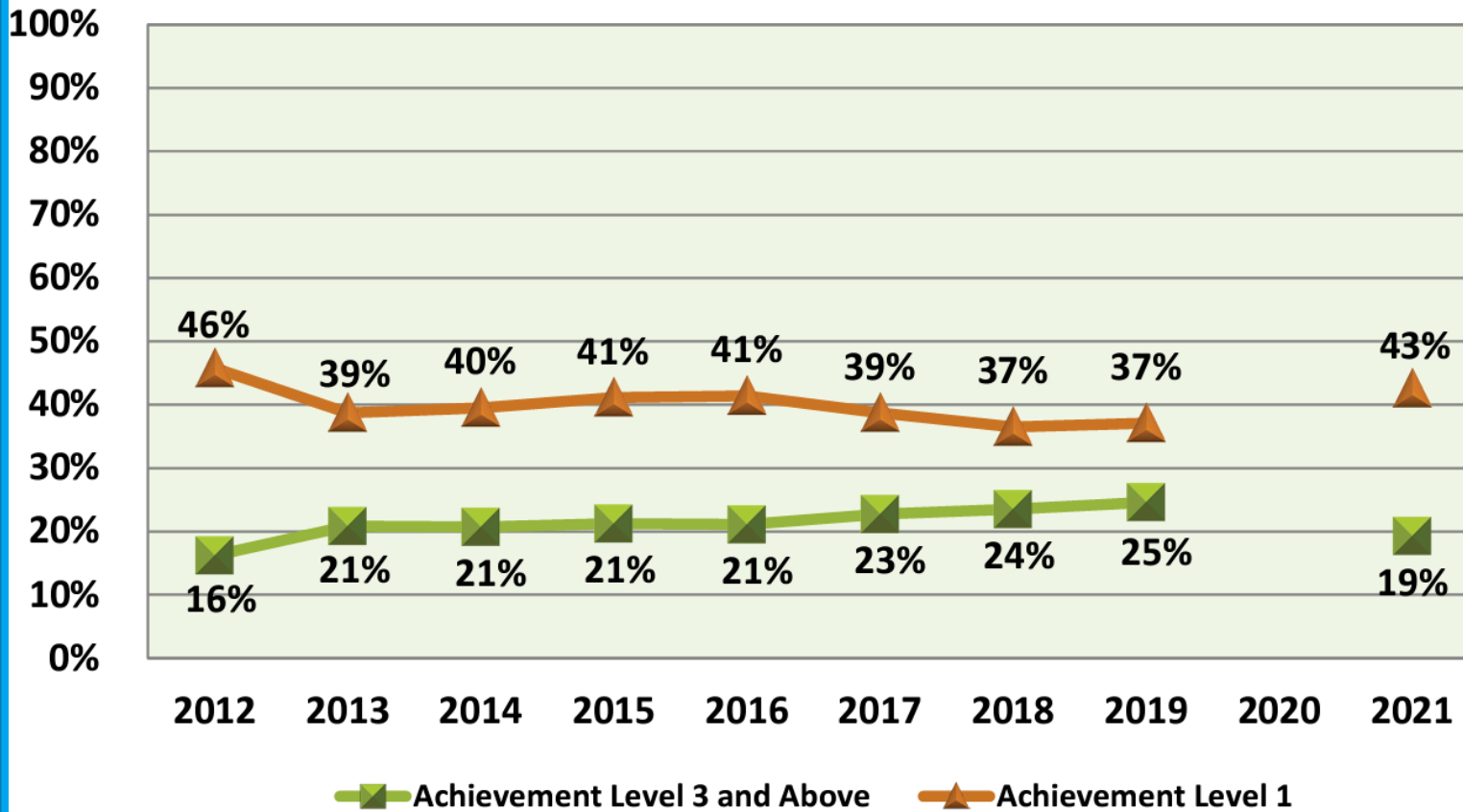
265000

Emerging Bilinguals

Why RIEL Biology?

Biology End of Course Exam Achievement Distribution (2021)

By Achievement Level, English Language Learners

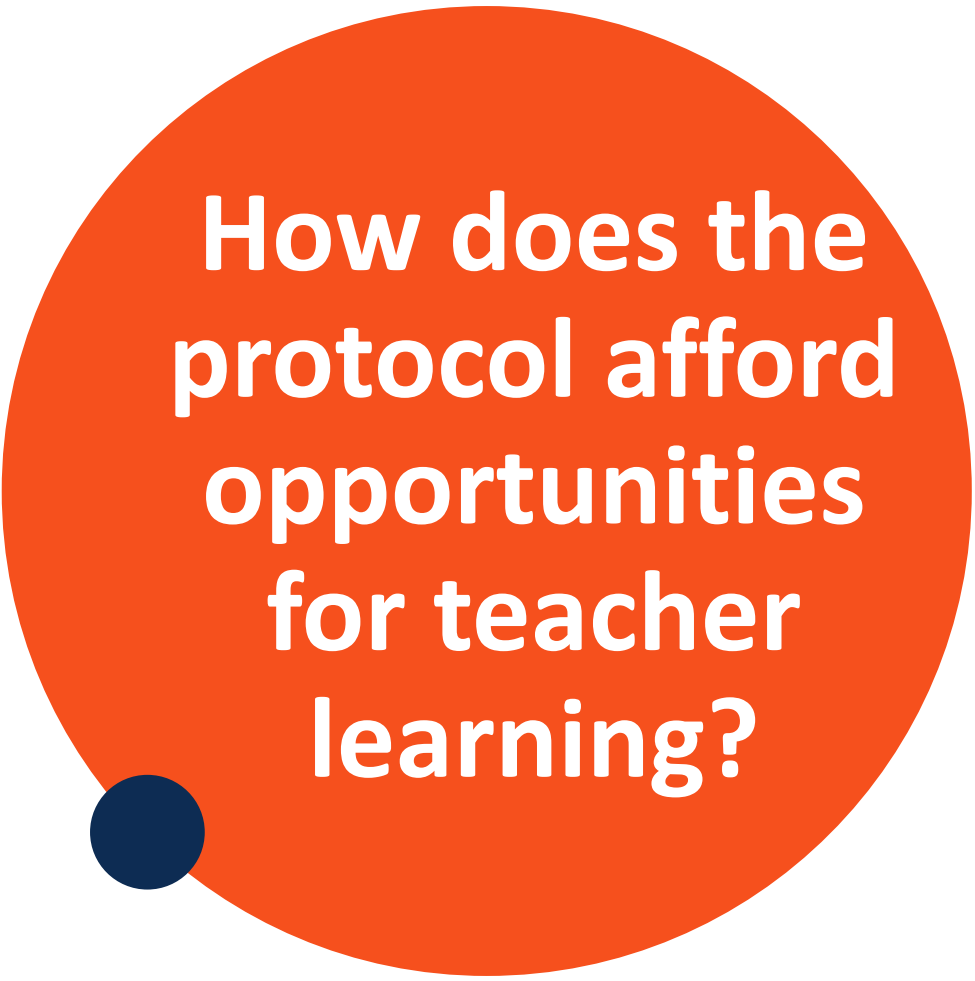


Level 5	Mastery —highly likely to excel in the next grade/course
Level 4	Proficient —likely to excel in the next grade/course
Level 3	Satisfactory —may need additional support for the next grade/course
Level 2	Below Satisfactory —likely to need substantial support for the next grade/course
Level 1	Inadequate —highly likely to need substantial support for the next course


The RIEL Instructional Framework

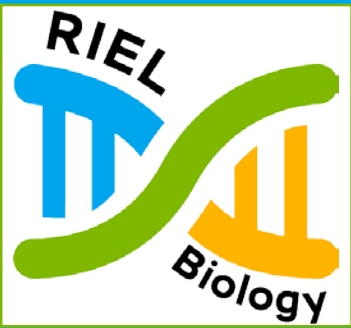
The RIEL Instructional Protocol





How does the
protocol afford
opportunities
for teacher
learning?

- 
- 1. Achievable instructional goals**
 - 2. Observable teacher moves**
 - 3. Guides reflection on practice**



Thank you!

www.education.ufl.edu/riel

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