

The background features a dark blue gradient with faint, light blue circular patterns and a scale on the left side. The scale has markings from 140 to 260 in increments of 10. Several circular elements, some with arrows, are scattered across the background, suggesting a scientific or technical theme.

EARLY AND HOME READING, EFFECTS PERFORMANCE IN HIGH SCHOOL

CAN SCIENCE TEACHERS INCREASE READING TO INCREASE PERFORMANCE.

OBSERVATION

- Low reading skills in 10th grade science students
- Limited science vocabulary

Question

- What can I do as a science teacher to improve these two things?
- Will efforts have an affect on the performance in science courses?

CURRENT RESEARCH SHOWS

- Positive correlation between Socioeconomic Status (SES) and student achievement
 - Higher income and employment stability allow greater positive interaction with children
 - Allows for more time for reading to children
 - Early exposure to reading increases vocabulary, and promotes higher fluency
- Early reading has a positive correlation with higher achievement in secondary school

STUDY DESIGN

- Survey of reading in the home
 - Time spent being read to
 - Availability of printed materials in the home
 - Time spent reading at home both school and non-school
 - Amount of time spent reading on electronic devices
- The Disappearing Spoon, young readers edition
 - Supplementary text for chemistry

RESULTS

- Home reading was very low
 - Majority of respondents report
 - Did not remember being read to as a child
 - Had limited access to printed media at home
 - < 6 hrs. per week on electronic devices
 - > 1 hr. reading at home per week
- Early reading programs can supplement parental reading
 - K3 or K5 summer reading programs combine child care and reading

RECOMMENDATIONS

- Early reading programs can supplement parental reading
 - K3 or K5 summer reading programs combine child care and reading
 - Reading in the park
 - Summer library reading programs
 - Increased use of literature in teaching STEM subjects
 - Training for STEM content teachers
 - Increased use/availability of supplementary text

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