



DATE: January 18, 2023

TO: Board of Education

FROM: Mrs. Carmen Ghysels, Superintendent Chief Learning Officer

SUBJECT: First Read of Adoption of High School Marine Biology Instructional Materials

PRESENTED BY: Kerstin Kramer, Assistant Superintendent of Educational Services

ACTION REQUESTED

First Read of Adoption of High School Science Marine Biology Instructional Materials

BACKGROUND INFORMATION

Marine Biology is a course that covers many of the same standards, benchmarks, and essential learnings as Biology, only with a focus on the marine world. The course currently does not have an adopted text. After exploring multiple options, the Marine Biology class piloted a textbook this past term.

As a result of the pilot process, the following textbook is recommended:

Marine Science, The Dynamic Ocean

The textbook is an excellent resource that uses the “Five E” method for engaging students and exploring content. The 5E Model of Instruction includes five phases: Engage, Explore, Explain, Elaborate, and Evaluate. The textbook’s online platform allows students to explore real-world problems and construct understanding through labs. A strength of the textbook is the book’s relevancy and connection to Next Generation Science Standards (NGSS) goals. The science concepts are applied to authentic scientific settings, scenarios and investigations.

RESOURCES REQUIRED: Lottery

PREPARED BY: Mindi Brenner for Kerstin Kramer, Assistant Superintendent of Educational Services