



**DATE:** March 1, 2023  
**TO:** Board of Education  
**FROM:** Mrs. Carmen Ghysels, Superintendent Chief Learning Officer  
**SUBJECT:** Approve Adoption of High School Marine Biology Instructional Materials  
**PRESENTED BY:** Kerstin Kramer, Assistant Superintendent of Educational Services

---

### **ACTION REQUESTED**

Approve Adoption of High School 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