

# Sea Turtle Rescue Video

**Audience:** 7th-12<sup>th</sup> grade

**Duration:** 10-15 minutes

**STEM Process Skills:** Observation, Communication, Measuring

**Learning Objectives/Goals:**

- Students can solve math problems related to Wildlife Rescue.
- Students can name STEM skills a Wildlife Rescue professional uses at work.

**TEKS:** Science 8.11C; Math 7.1A, 8.1A; Aquatic Science 2I; Biology 2F; Chemistry 2G

**Ocean Literacy Principles:** 6

**Vocabulary:** Lactated Ringer's Solution, dextrose, iodine, isopropyl alcohol

**Description:** In May of 2019, Texas State Aquarium's Wildlife Rescue team took in about 100 stranded juvenile green sea turtles. By watching an interactive video of this event, students will practice the math and science skills required to rehabilitate and release these turtles.

**Materials:** computer with internet, pencil, scratch paper

**Procedures:**

- Go to: <https://bit.ly/3373LcT>
- Ask students to watch the video. The following multiple choice and open-ended questions will appear throughout the video:

Q: How much does the turtle weigh?

A: 2.02 kilograms (kg)

Q: If our 2.02 kg turtle needs 20 mL of solution per kilogram it weighs, how much solution should be in the syringe?

A: 40 mL

Q: Why do you think we used these chemicals?

A: To clean the injection site

Q: If we fed each turtle 5% of its body weight per week, how many grams of food did our 2.02 kilogram turtle eat in a week? (Hint: There are 1,000 grams in 1 kilogram.)

A: 101 g

Q: What skills are important for someone who works at the Texas State Aquarium's Wildlife Rescue to have?

A: Open-ended

Q: Do you want to work in the wildlife rescue field?

A: Poll

- At the end of the video, students will learn how many questions they answered correctly.

**Extensions:**

- Ask student to watch the video at home and write their answers down.
- Learn more about the Texas State Aquarium's sea turtle rescue work: <https://www.texasstateaquarium.org/conservation/wildliferescue/seaturtle-rescue/>

**Further Information:**

[www.seaturtle.org](http://www.seaturtle.org)

[www.iucnredlist.org](http://www.iucnredlist.org)

[www.nps.gov/pais/learn/seaturtles.htm](http://www.nps.gov/pais/learn/seaturtles.htm)