



Numbers

Special Activity

Osmo GENIUS

Earth MONTH

Let's take a trip and explore Japan!

Travel to landmarks around Japan like Mount Fuji, the country's highest mountain and an active volcano!



To get started, open Osmo Numbers and then tap on this special button.

Can you find 12 special animals and the Terra Turtle?!



Genius Spotlight: Eugenie Clark



It's hard to imagine because we spend most of our time on land, but Earth is actually 70% ocean!

The sea supports many lifeforms big and small, with their own food chains and ecosystems. Some people base their entire careers around the ocean, from oceanographers (who study the water) to fishermen (who catch and sell seafood).

One of these people is Eugenie Clark, an American ichthyologist (say that 3 times fast!), which is someone who studies fish for a living. Eugenie's career was just beginning when scuba gear was invented in the 1940's, making her a pioneer in the field of diving for research purposes. Of all the animals Eugenie met underwater, she

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More about: Eugenie Clark

loved sharks most. Eugenie thought there was much more to be amazed by than to fear about the species and focused her career on proving this.

One amazing thing is how “buoyant” sharks are. Underwater, the forces of buoyancy and gravity work together to keep fish floating (so they don’t drift up or sink down). While most fish’s bodies restrict them to certain depths, sharks’ extra buoyancy allows them to move freely from deep sea to the surface.

Without people like Eugenie brave enough to research subjects that others don’t want to, like sharks, we wouldn’t know half as much about the world around us!



Blue Sharks are common in the ocean around Japan.

Buoyancy Activity

A fish’s buoyancy depends on whether its body is lighter than the water around it. Sharks’ bodies are more buoyant than other fishes’ mostly because their spines are made of cartilage (which is lighter than bony fishes’ spines) and their big livers are filled with oil (which is lighter than water).

To see buoyancy at play:

- 1 Grab two empty water bottles.
- 2 Put **water** in one bottle and **oil** (like vegetable or canola) in the other. Close the tops.
- 3 Drop bottles in a sink, tub, or big container of water.

Do you notice a difference? The oil-filled “shark” floats because oil is lighter than water, which means it’s buoyant!



Check with an adult before using household items.