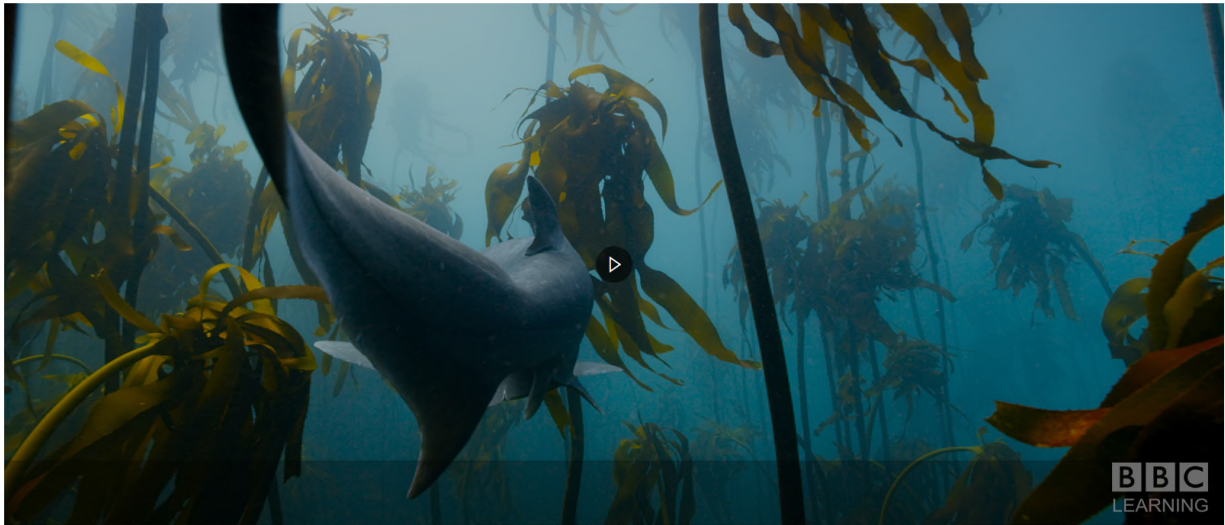


How do sharks swim?

Learn about the 3D coordinate system using physical and digital shark models to understand yaw, pitch, and roll.



Build future ready skills

Write code, build sensors, create in 3D, analyze data, and experience mixed reality while learning about how sharks swim.



Understand shark movement

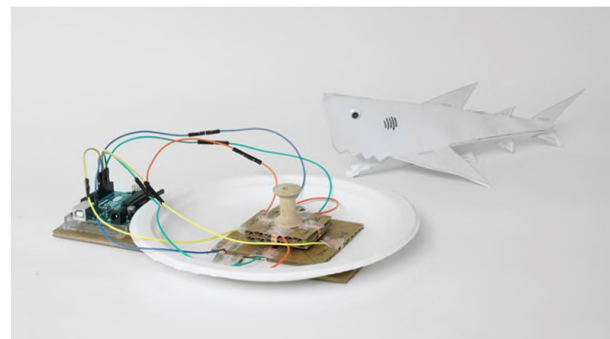
Using physical and digital models coupled with mathematical concepts, learn how sharks use fins to enable rotation and movement.

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Build shark models and controllers

Build paper shark models and a joystick controller to pilot a digital shark as it surveys a virtual marine environment.

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Utilize the best of Microsoft and BBC Learning resources to customize activities and enable student reflections

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Discover additional lesson plans

Microsoft Education and BBC Learning present these hands-on STEM lesson plans that bring ocean-themed activities to your classroom.

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How deep is the ocean?

Students explore remote terrains by modeling and graphing the ocean floor with an ultrasonic sensor to visualize organisms that live in different ocean layers.

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How to craft a coral reef?

Around the globe, coral reefs dot the aquatic landscape. Through the power of Minecraft: Education Edition, take your classroom underwater to discover the different types of reefs and what we can do to save them.

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How are ocean currents formed?

Discover the impact of salinity and temperature on ocean currents by conducting experiments, building an electrical conductivity sensor, and analyzing global data.

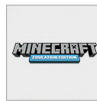
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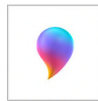
Minecraft:
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