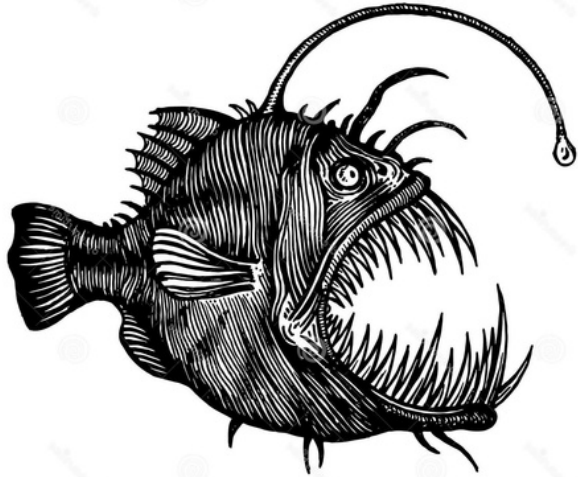


TUBE WORMS



**PUPPET SHOW VIDEO &
ACTIVITY GUIDE**



1) Watch the video

<https://vimeo.com/680507986>

2) Review Activity Guide

3) Make an Angler Fish Puppet



SECRET PASSWORD FOR THE VIDEO
RIFTIA

HOW DEEP IS THE SEA?

BY WENDY PASSMORE-GODFREY

"How deep is the sea"

Sally asked me

As we sat in our boat with the waves at our bow.

"How deep is the sea? How deep? How deep?"



"And are there sea monsters?"

"And do they eat children?"

I told her the history, as best as I knew, of the early explorers and their early ideas.

Of those who believed that nothing could live deeper than 300 fathoms.

Of those who scraped up from the depths of the sea, species they'd never imagined.

"Strange and beautiful things" they'd said, "give us a glimpse of curious life forms deep in the sea."

Of those curious humans descending the deep - Breathing through tubes

Peering through visors - Looking like aliens,

Deep in the alien landscape

"Alien monsters?"

"Deep in the sea?"

"How many? how strange?"



We now can go deeper,

We can take better pictures, we can chart better courses,

we can measure and record and test our hypotheses,

There might well be aliens, for all that we know,

So, as we pretended to descend to the deep, I told her some more,

I told her the wonder, I told her the beauty, I told her the scary, the odd and bizarre,

I told her the truth, of the way things now are...

We dove first through the Sunlight Zone and named well-known creatures.

Then we went deeper, down through the Twilight Zone.

Darker and darker.

HOW DEEP IS THE SEA? (CONTINUED)

“Then down to the Midnight Zone. Stranger and stranger creatures – a vampire squid!



Now we are down at the seabed. Beside a hydrothermal vent.

This ‘hole’ in the earth’s surface is spewing out boiling toxic chemicals, deep under the water’s surface.

These are Tube Worms. Let’s take a closer look.

They have no eyes, no mouth, no way of moving, They are not a plant.

They are not actually even a worm.

They live in a curious partnership with bacteria.

And here’s a cute little fellow – a Yeti crab, white, blind and furry. Scientists still don’t know how he survives in the hot, poisonous water. So many mysteries, so many questions.

Hydro-thermal vents encourage us to imagine life on other planets and give us ideas on how life on earth itself began.

We’ve started to learn exactly how deep, how many, how strange...

We know now how much we don’t know at all.

In fact, more men have walked on the moon to date than have walked on the ocean floor.

And we’ve seen just a bit, less than one percent of the vast undersea terrain.

We know there’s no monsters as marked on a map,

“No monsters? Phew!”

Well, the monsters of men are the threats to this world.

This deep- water world,

This deep- black sea.

“How deep?”



We know that the deep, is as deep as, as far, as a height of low flying cloud

We know that the deep is the last place on earth, Where we know, hardly nothing at all.

“Nothing at all! There could be Alien Sea Monsters!”

RESPONDING TO POETRY

A USEFUL RUBRIC

After viewing the video recording, use this rubric to critique what went well and what could be improved; e.g., expression, speed, volume, clarity. Use it for reviewing your own poetry readings too.

| | | |
|--------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------|
| Name of Poet: | Title of Poem: | Date and Place of Poetry Reading: |
| How did the poet express the message of the poem? | | |
| Did the poet read too fast? too slow? just at the right speed? | | |
| Could the poet have varied the speed of the reading to make the poem better? How? | | |
| Could you hear the poet? How effective can a whisper be when reading a poem? What is a stage whisper? | | |
| Could you clearly hear the words the poet said or did some of the words blur together? | | |
| What went well with the poetry reading? | | |
| What could be improved with the poetry reading? | | |

WRITE A POEM ABOUT UNDERWATER ZONES

The wonder and wackiness of the creatures of the deep are described with poetry, shadows and entrancing paper sculpture puppets

1) Write your own poem about the dark black sea. Feature one creature for each underwater zone. Refer to the diagram of underwater zones. Research the names of creatures dwelling at specific depths and what they are like.

2) Write a poem about a creature that lives close to a thermal vent. Why would they want to live in the 'near boiling temperatures'. Hydrothermal Vents are found 2100 (Average) metres below sea level.

Check out more:

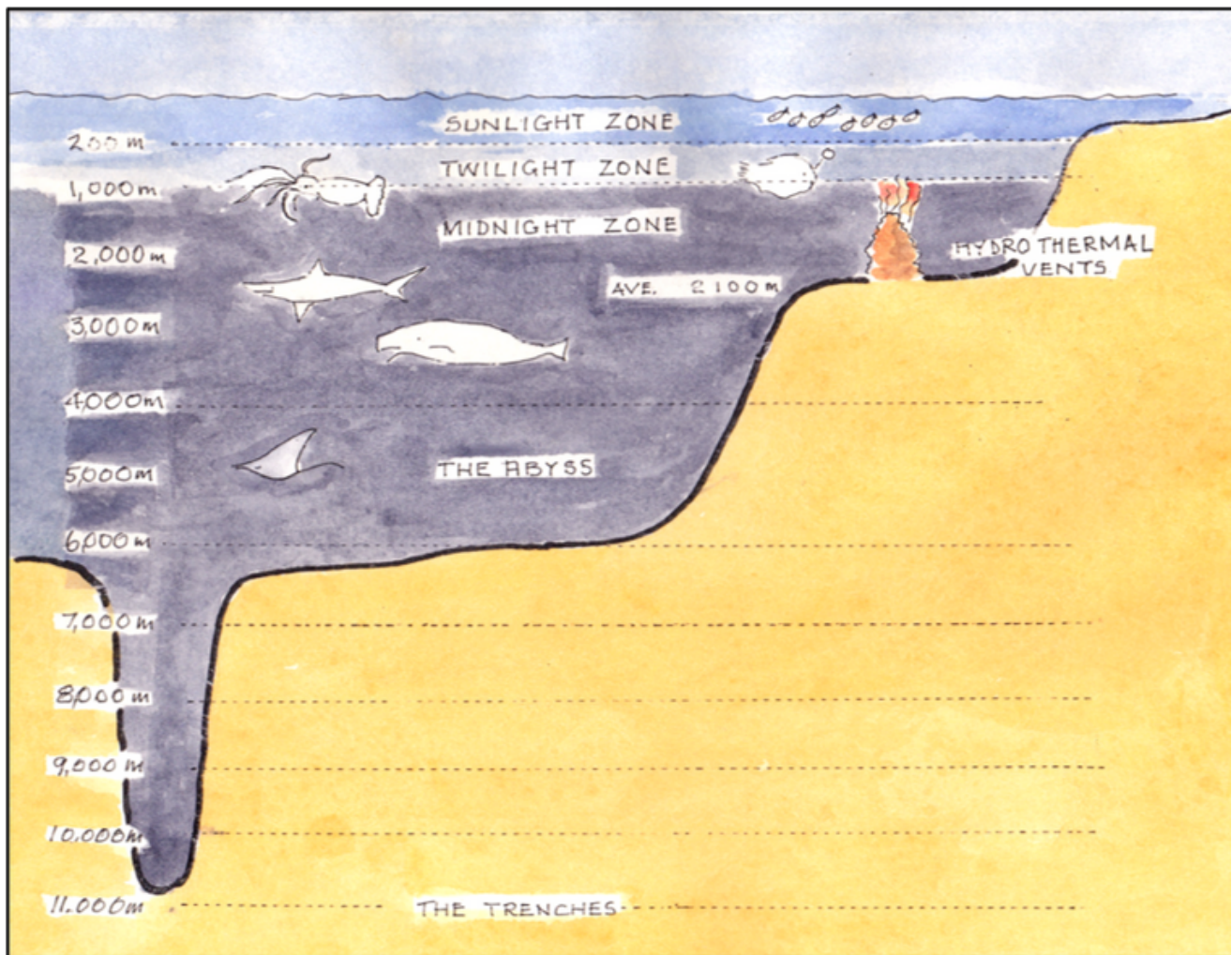
(links retrieved March 2022)

<https://letstalkscience.ca/educational-resources/backgrounders/ocean-zones>

<https://oceanservice.noaa.gov/facts/vents.html>

The Deep: The Extraordinary Creatures of the Abyss
by Claire Nouvian ISBN-13 : 978-0226595665

UNDERWATER ZONES



| | |
|-----------------------------------|-----------------------------------------------------------------------------------------------|
| Epipelagic Zone (Sunlit Zone) | blue whales, dolphin, sharks, tuna, mackerel, jellyfish, sea turtles, and stingrays, oysters, |
| Mesopelagic Zone (Twilight Zone) | swordfish, crab, krill, hatchet fish, eel, squid |
| Bathypelagic Zone (Midnight Zone) | vampire squid, sea stars, octopus, viperfish, frill shark, echinoids, angler fish, jellyfish |
| Abyssopelagic Zone, (Abyss) | basket stars, sea cucumbers, sea spiders, tube worms, yeti crab |

ALIENS IN THE OCEAN?

The poem also has fun with the idea of aliens living in the ocean. In fact, the National Geographic says Angler Fish look "like something out of a science fiction movie".

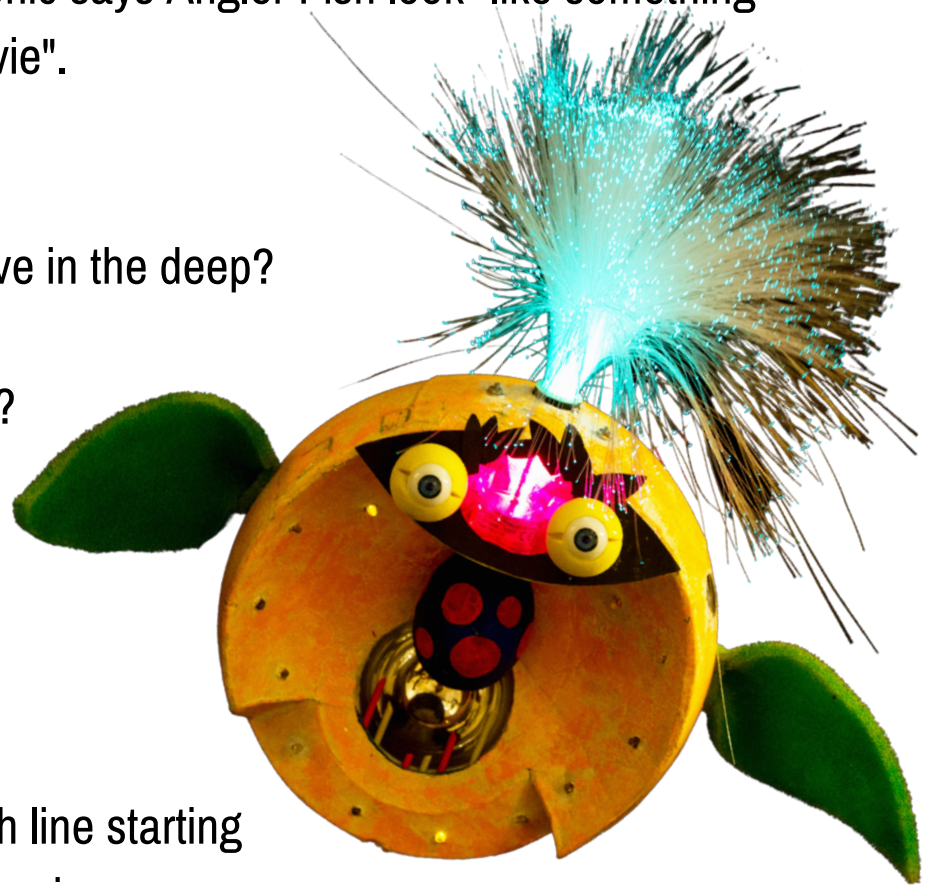
So are there really aliens?
If there were, would they live in the deep?
What would they look like?
What would they like to do?
Write a funny poem
about aliens living in
the deep.

OR write a poem, with each line starting
with the letter from its name. i.e.:

ELONGATED

EELS (AREN'T SNAKES)

LIKE LOBSTERS FOR LUNCH



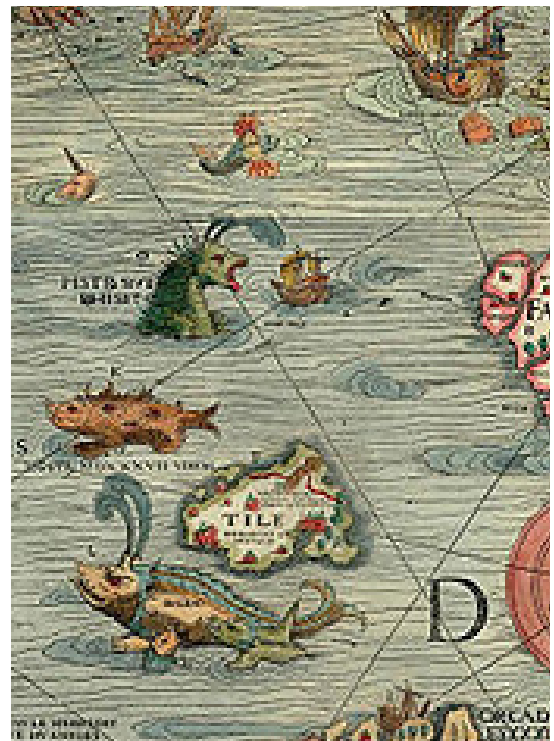
THE MONSTERS ARE MEN?

The poem "How Deep is the Sea" suggests the monsters are actually the humans. Why is that? Think about issues such as polluting the seas, whaling, and over-fishing.

Next research old sailing maps.
Find examples of maps that included drawings of scary sea creatures from the deep.

Wonder about the ideas the
old map makers had.

Do we draw maps like this today?
Why not? Have humans been to
the depth of the sea and
discovered all the creatures there?



<https://www.livescience.com/39429-sea-monsters-gallery.html>

(link retrieved March 2022)

<https://www.oldmap.co.uk/product/sea-monsters-map/>

(link retrieved March 2022)

Then draw a cartoon flipping the idea that the sea monsters are threatening creatures to show that some of the human activities are actually the monstrous activities in the seas today.


MIRACULOUSLY UNIQUE

"Our voyage under the sea
down to the deep, has shown
us that we "belong to a vast,
living chain that is incredibly
beautiful, terribly fragile and –
until proven otherwise –
miraculously unique in the
universe."

Claire Nouvian 2006



FORBIDDEN WORLD



"Under the sea, it seems my every
gaze is as stolen from some forbidden
world; and it triggers an emotional
shock that never flags, no matter how
many times I dive."

Jacque – Yves Cousteau 1976

MEET SALLY



Hi! My name is Sally.

Write me a note or send me a drawing about how you liked the video, the poem, tube worms, yeti crabs, sharks or any underwater animals. Do you think there are aliens?

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