

Natural History Summer Explorations: Deep Sea Animal Adaptations

Dive Deeper at Home

SCIENTIFIC ILLUSTRATION- DEEP SEA EXPLORATION CHALLENGE:

One fun and important art and science connection is scientific illustration! In this challenge, you will make a scientific illustration of a deep sea fish using a grid technique.

WHAT YOU NEED:

- 8 1/2 X 11 blank paper
- Something to draw with such as: pencil, colored pencils, and/or pens
- A deep sea fish photo
- OPTIONAL: Ruler or straight edge

DIRECTIONS:

1. Take a look at these pictures and choose a fish to draw. Make careful observations of all the details you want to capture in your drawing.



Three-Tooth Puffer (Photo Credit: Keiichi Matsuura)





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- 2. Review the steps for creating a scientific illustration by watching this video: <u>https://naturalhistory.si.edu/education/natural-history-summer-explorations/deep-sea-animal-adaptations/fishes</u>
- 3. Set up your grid and intersecting points as shown here. Draw lines to connect intersection points. Then use mini-grids (shown in yellow) to add details.







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4. Use colored pencils or pens to color in the details of the fish. You can watch the artist Rachel Keeffe coloring her fish here:

https://naturalhistory.si.edu/education/natural-history-summer-explorations/deep-sea-animal-adaptations/fishes



5. Share your scientific illustration with others and tell them what you think of scientific drawing as a way to share animals of the deep sea.

TAKE IT A STEP FURTHER:

- 1. Find another deep sea fish or other deep sea animal that captures your interest and follow the same steps above to create a scientific illustration. Explore deep sea animals on the Ocean Portal (https://ocean.si.edu/search?search_api_fulltext=deep+sea+animals) for inspiration.
- 2. Watch How Some Fish Have Adapted to the Ocean with Dr. Kate Bemis: <u>https://naturalhistory.si.edu/education/teaching-resources/life-science/webinar-how-some-fish-have-a</u> <u>dapted-ocean</u>