



Microscopy Strip Puzzle Image #1

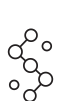
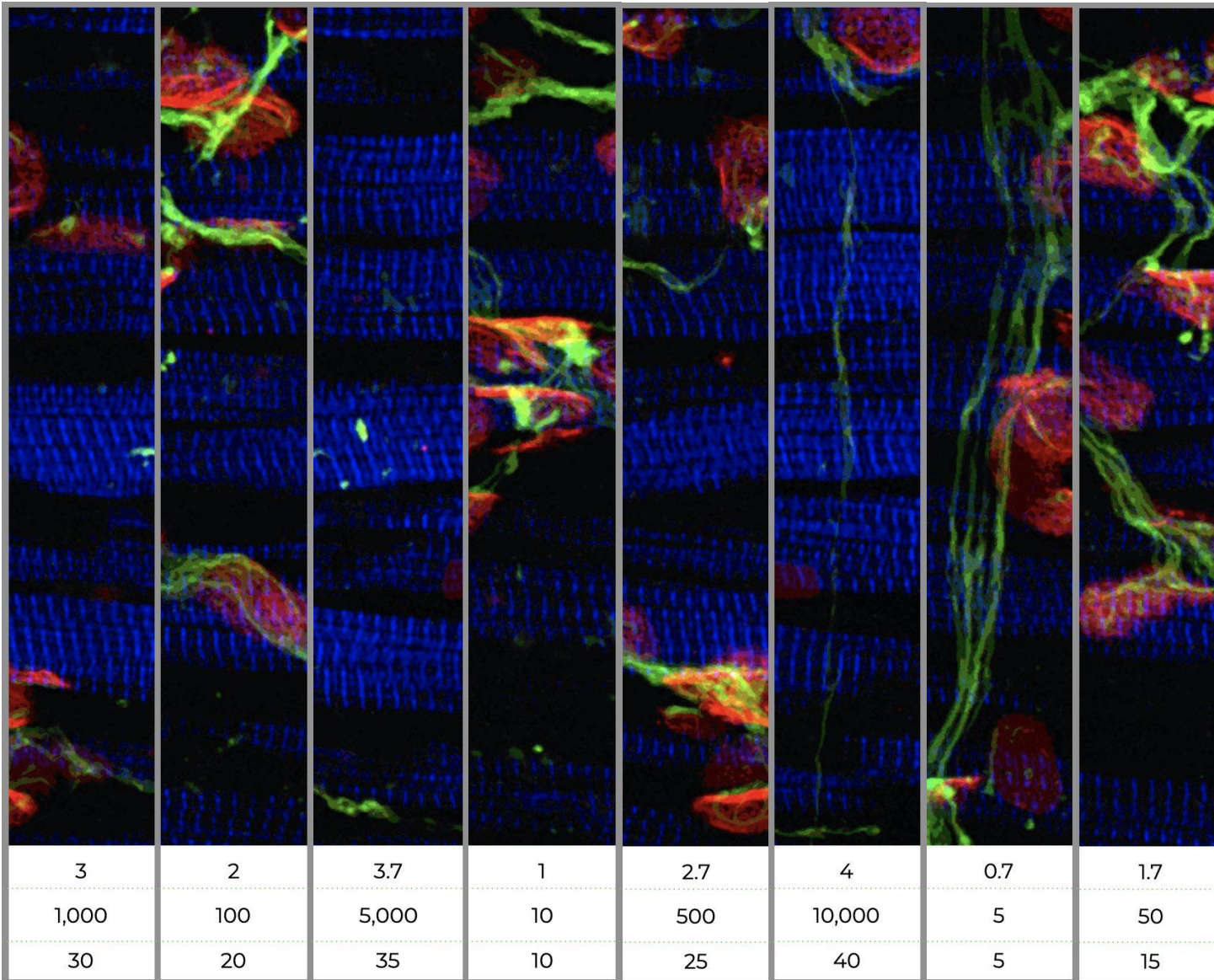
Cut out the image along all of the grey lines (making 8 strips).

Kids can order the strips based on the numbers at the bottom getting *larger* to reassemble the final image.

(Level up: Cut off any rows of numbers that may be easier than the kids are ready for)

Paste them into the template on the next page to make your own scientific art gallery.

Enjoy!



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Muscle Fibers

Pseudocolored Image

Blue = muscle fibers

Green = neuron fibers
(like wires)

Red = chemical
receptor on neurons

Light/fluorescent
Microscope

Darnell Lab
Rockefeller University

These scales
represent growth by
linear or logarithmic
scales. The top row is
the logarithmic scale
of the middle row and
can be useful for
scientists who want
to measure and
compare things over
many scales (like
muscle cells, fibers,
and whole muscle in
your body).



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Microscopy Strip Puzzle Image #2

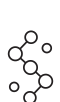
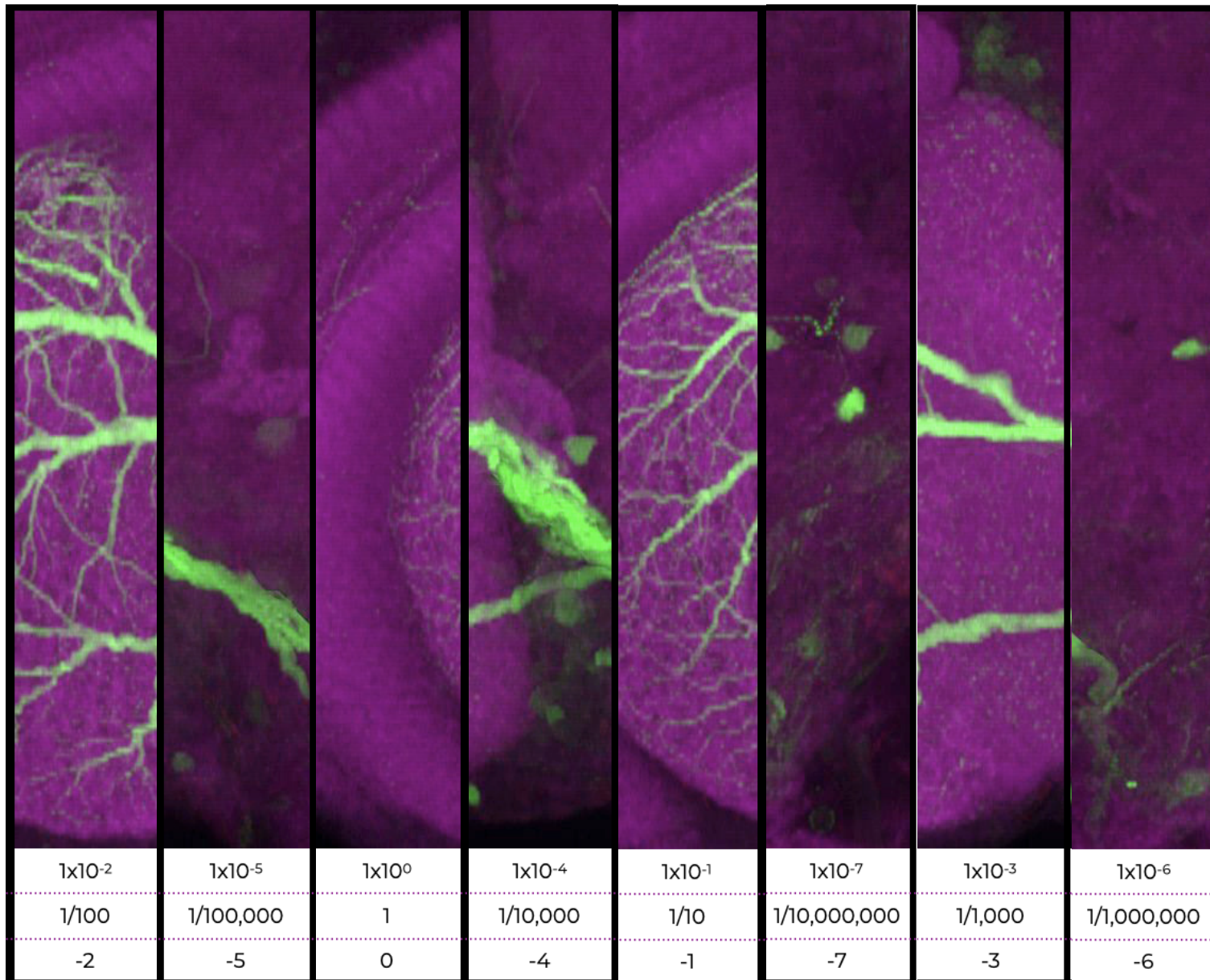
Cut out the image along all of the black lines (making 8 strips).

Kids can order the strips based on the numbers at the bottom getting *smaller* to reassemble the final image.

(Level up: Cut off any rows of numbers that may be easier than the kids are ready for)

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Enjoy!

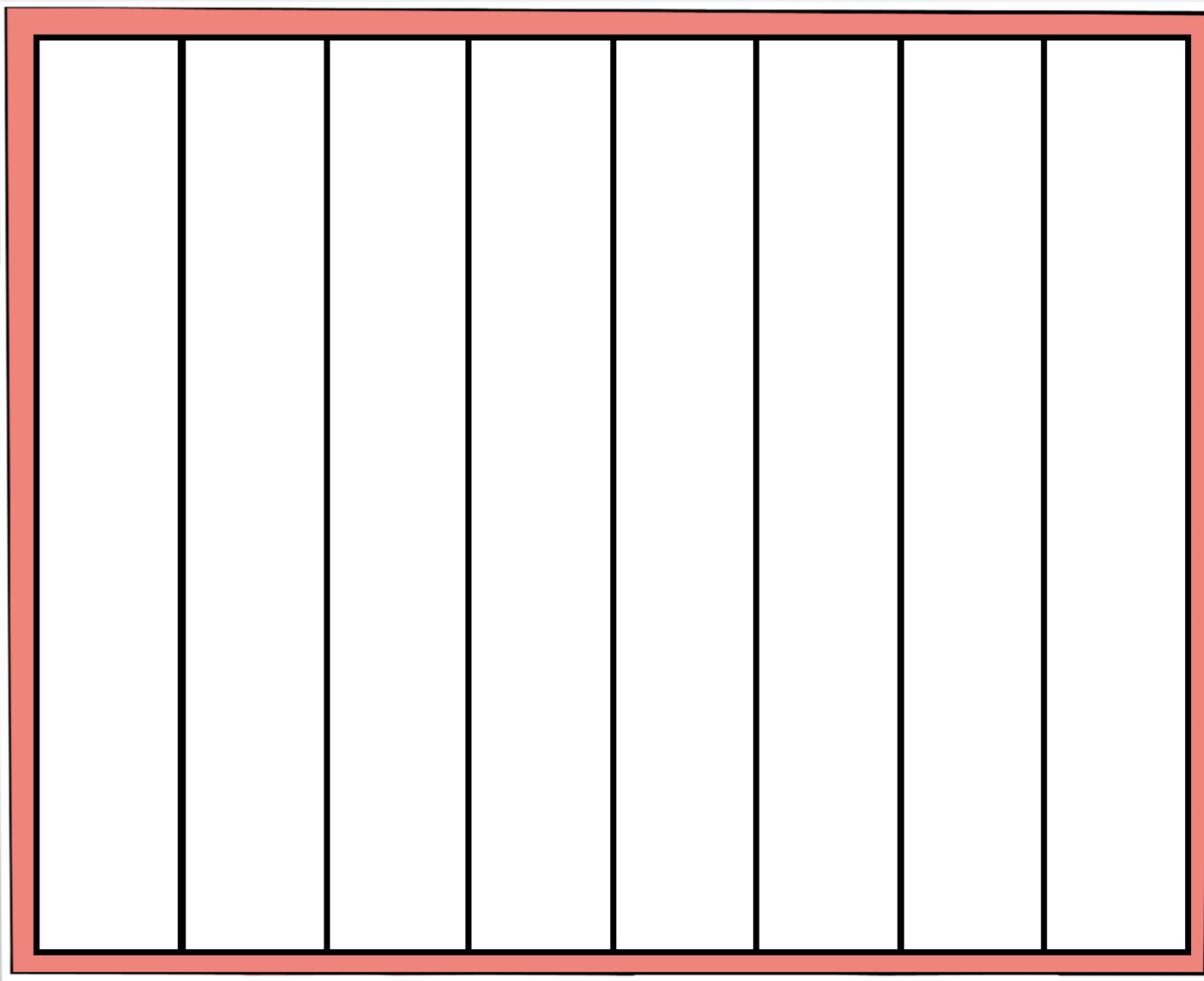


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Neurons in a Fly's Brain

Pseudocolor Image
Purple = fly brain
Green = neurons (like wires) that send information about what the fly can see

Fluorescent Microscope

Maimon Lab
Rockefeller University

This scale represents some ways scientists represent smaller and smaller numbers. The top format is called "scientific notation" and the middle format is fraction notation. The bottom row is negative numbers (can you find where there are negative numbers in the top row?)



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Microscopy Strip Puzzle Image #3

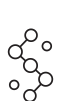
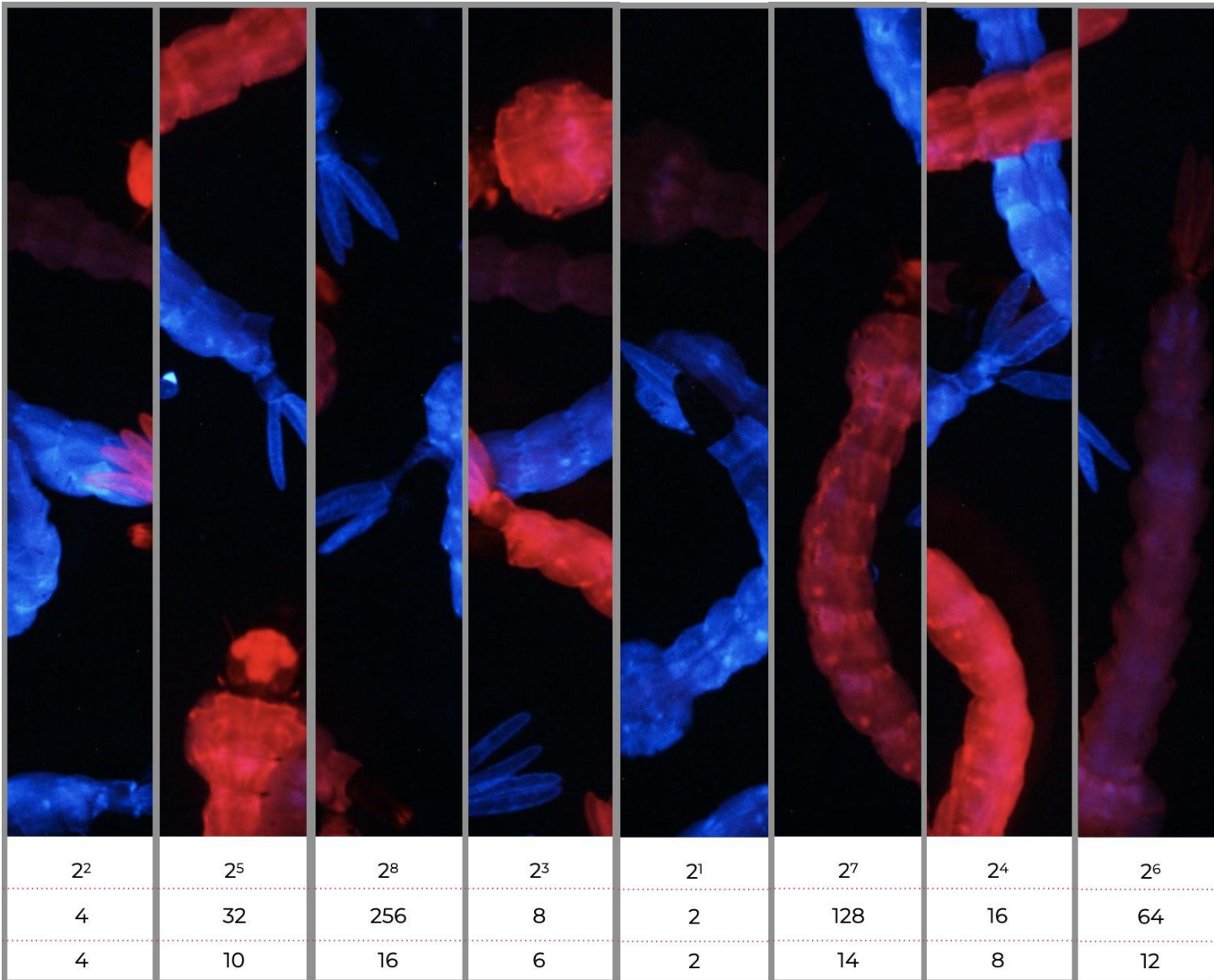
Cut out the image along all of the grey lines (making 8 strips).

Kids can order the strips based on the numbers at the bottom getting *larger* to reassemble the final image.

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Enjoy!



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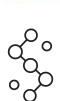
Mosquito Larvae

Fluorescent mosquito larvae produced by the CRISPR-Cas9 gene editing technology

Fluorescent Microscope

Voshall Lab
Rockefeller University

These scales represent different ways numerical patterns can grow. The bottom row is linear growth, increasing by 2 each time. The middle and top rows show exponential growth, doubling each time.



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