

_____’s
Little Book of Big Dreams



by Jean Fan &
Curry Chern

pictures by
Jean Fan

_____ 's Little Book of Big Dreams

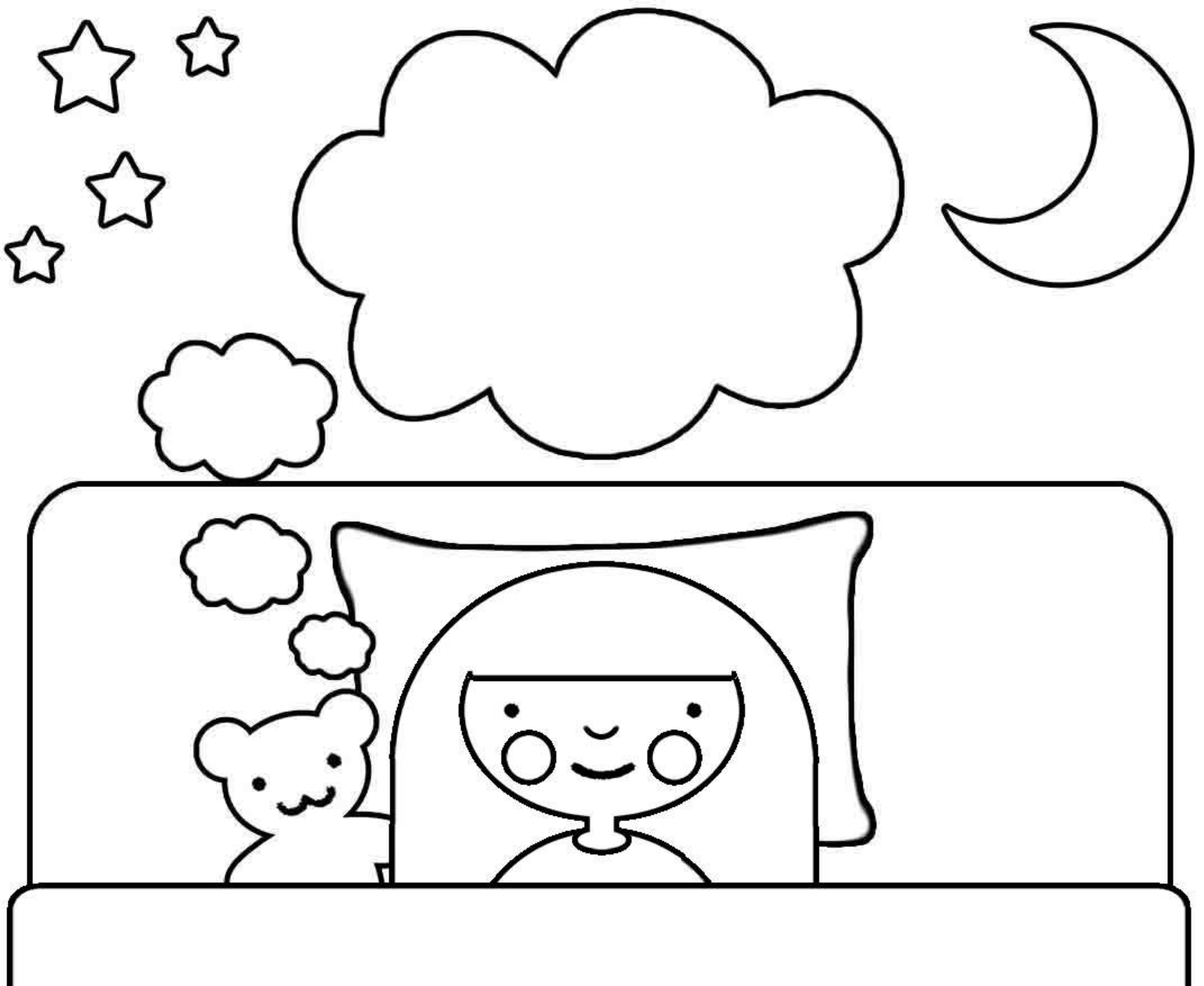
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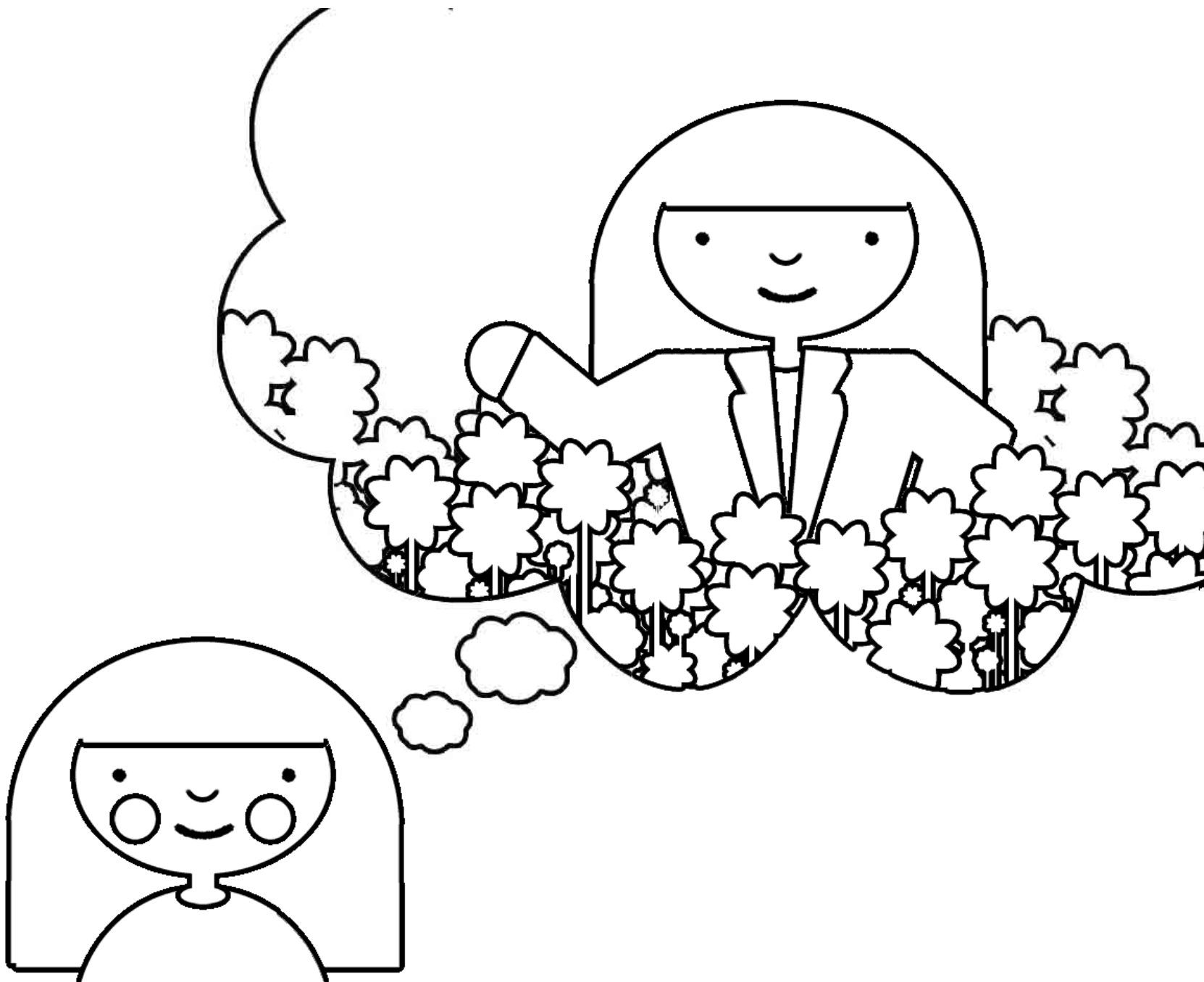
c u S T E M  i z e d

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As _____ gets ready for bed tonight,
after winding down and being tucked in tight,
she dozes off into her nightly snooze,
and a magical transformation ensues.



_____ is all grown up with much to do,
with big shoes, big thoughts, and big plans too.
So as _____ sleeps, she begins to see,
what she can do and what she can be.

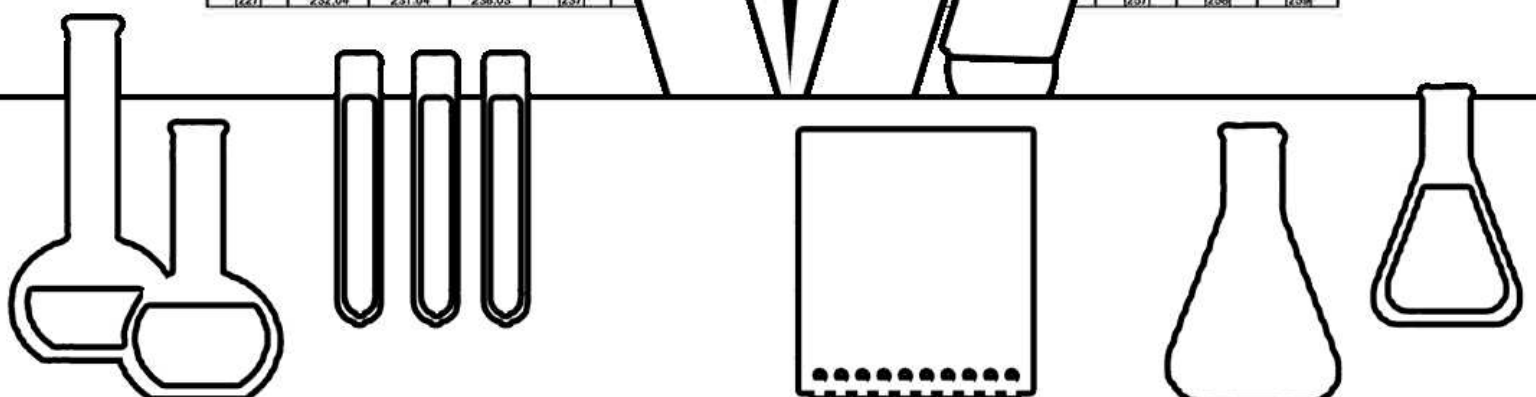


_____ is a chemist. She is a master of potions.
 She makes crayons, insulin, and nice smelling lotions.
 She mixes chemicals so that they bond or collapse,
 to study their reactions and make explosions perhaps.

_____ 's Chemistry Lab

_____ 's Chemistry Lab

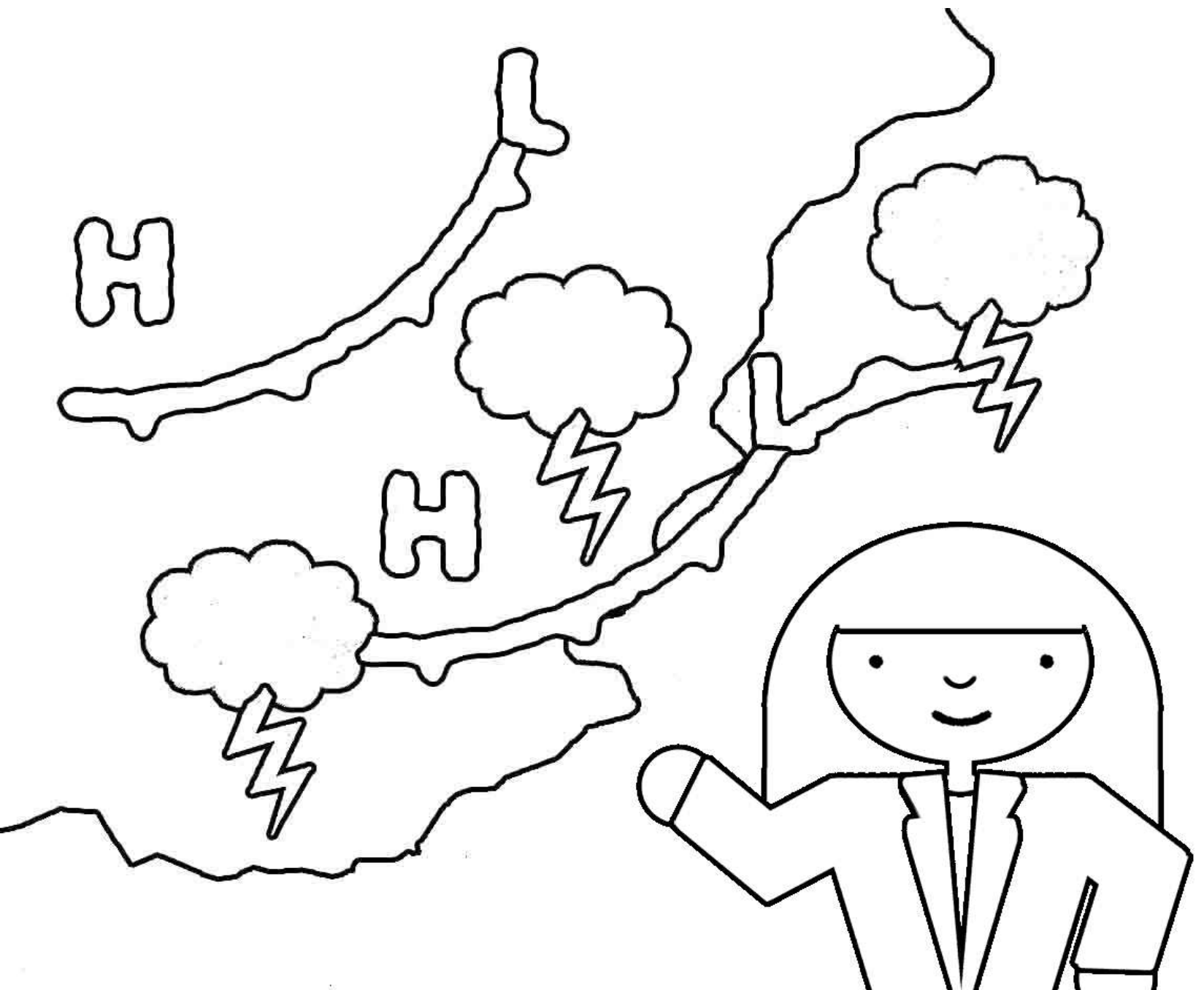
A cartoon illustration of a scientist with a large head, wearing a white lab coat and safety goggles. The scientist is holding a round-bottom flask in their right hand. Behind the scientist is a periodic table of elements. The table is partially obscured by the scientist's head and arms. The elements shown include hydrogen (H) through radon (Rn) in the top right, and lanthanum (La) through ununquadium (Uuq) in the bottom right. The scientist is positioned in the center, with their head overlapping the middle of the periodic table.



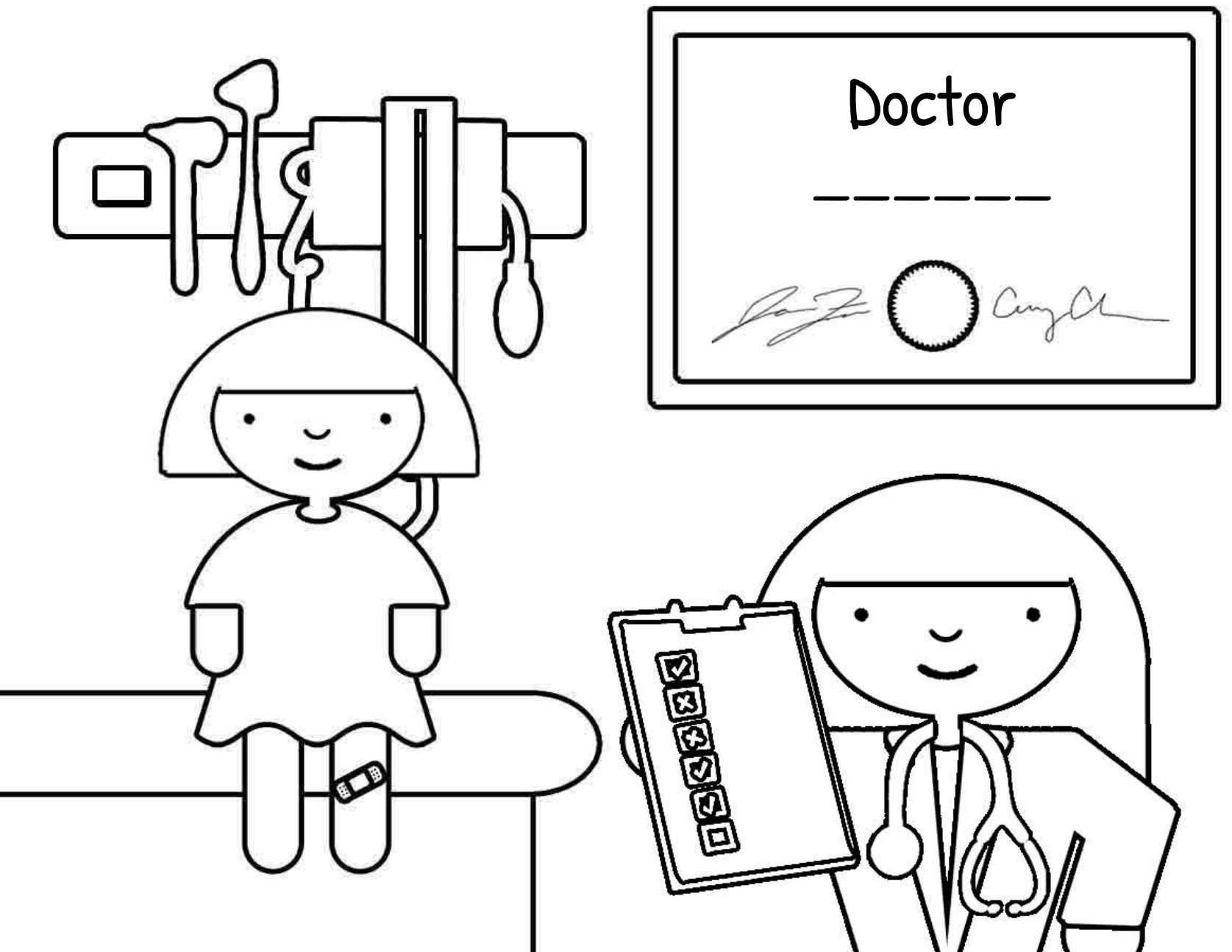
_____ is a programmer. She writes in code,
to create awesome games for us to download.
She makes browsing and searching online a breeze,
and even designs apps for phones and TVs.



_____ is a meteorologist. She studies the sky,
to see if the weather will be wet or dry.
She tracks the paths of storms and hurricanes,
and reminds us to bring umbrellas when it rains.



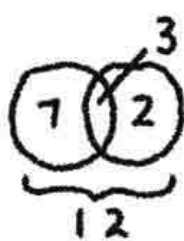
_____ is a doctor. She cures what is feeling wrong,
using science to make sure we are healthy and strong.
She checks our eyes, nose, mouth, and ears,
and tracks our height for years and years.



_____ is a mathematician. She loves to count.
 She helps shops decide how much money to discount.
 She studies numbers and patterns and their properties,
 to better understand the world and its commodities.

Derivation of _____'s Formula

$$\begin{aligned} 1+1 &= 2 \\ 1+1+1 &= 3 \\ 2+1 &= 3 \end{aligned}$$



$$a^2 + b^2 = c^2$$

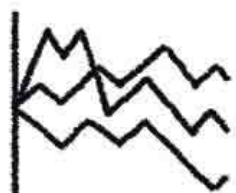
$$\begin{array}{cccc} & & 1 & \\ & 1 & & 1 \\ 1 & & 2 & & 1 \\ & 1 & 3 & 3 & 1 \\ & & \dots & & \end{array}$$

$$\begin{aligned} 2x + y &= 3 \\ x + y &= 2 \\ x &= 1 \\ y &= 1 \end{aligned}$$

$$\left[\begin{array}{ccc} \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{array} \right] 3$$

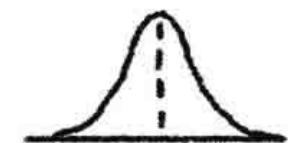
4

$$\frac{3}{x4} \frac{12}{12}$$



$$S_n = \sum_{i=1}^n Z_i$$

$$\begin{aligned} \text{if } (x+y)^n &= \sum_{k=0}^n \binom{n}{k} x^{n-k} y^k \\ \text{then } \binom{n}{k} &= \binom{n-1}{k-1} + \binom{n-1}{k} \end{aligned}$$

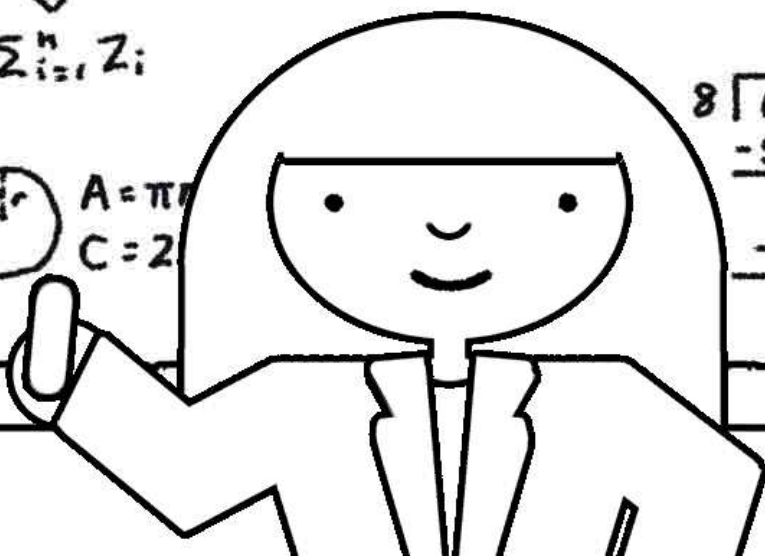


$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

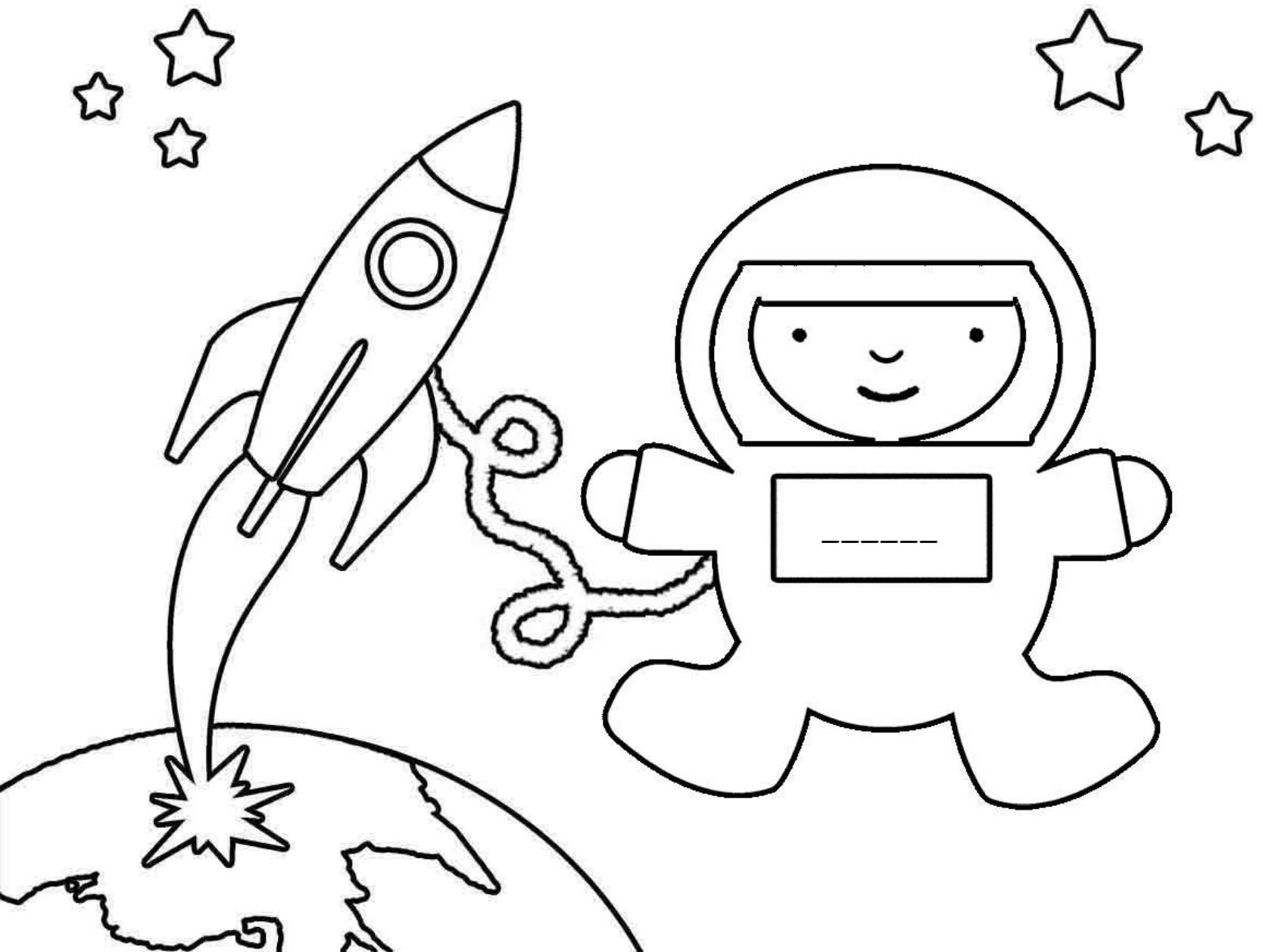


$$\begin{aligned} A &= \pi r^2 \\ C &= 2\pi r \end{aligned}$$

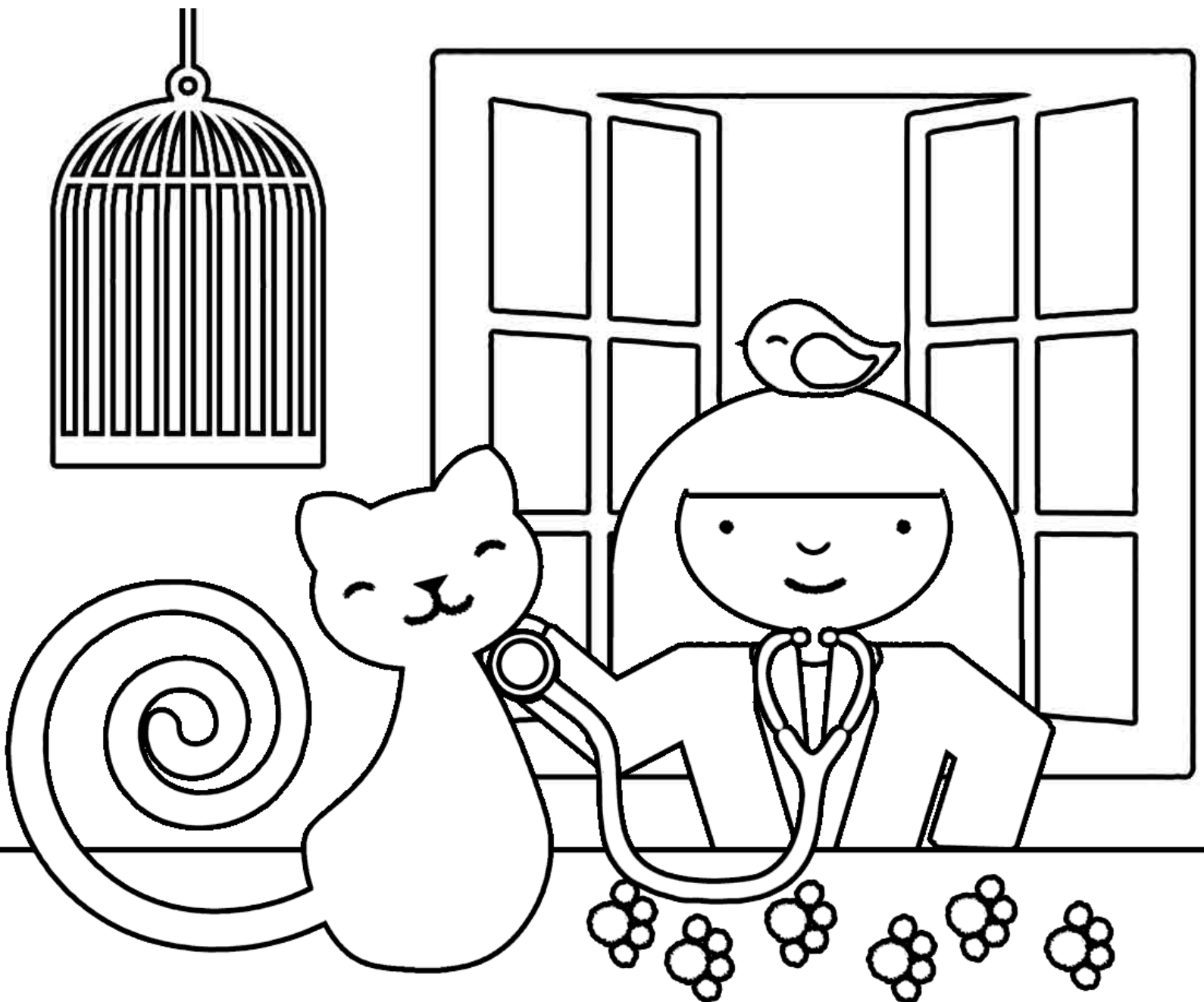
$$\begin{array}{r} 76r4 \\ 8 \overline{) 612} \\ \underline{-56} \\ 52 \\ \underline{-48} \\ 4 \end{array}$$



_____ is an astronaut. She flies into space,
searching for the presence of an alien race.
She floats among the planets, moons, and stars,
to become the first person to land on Mars.

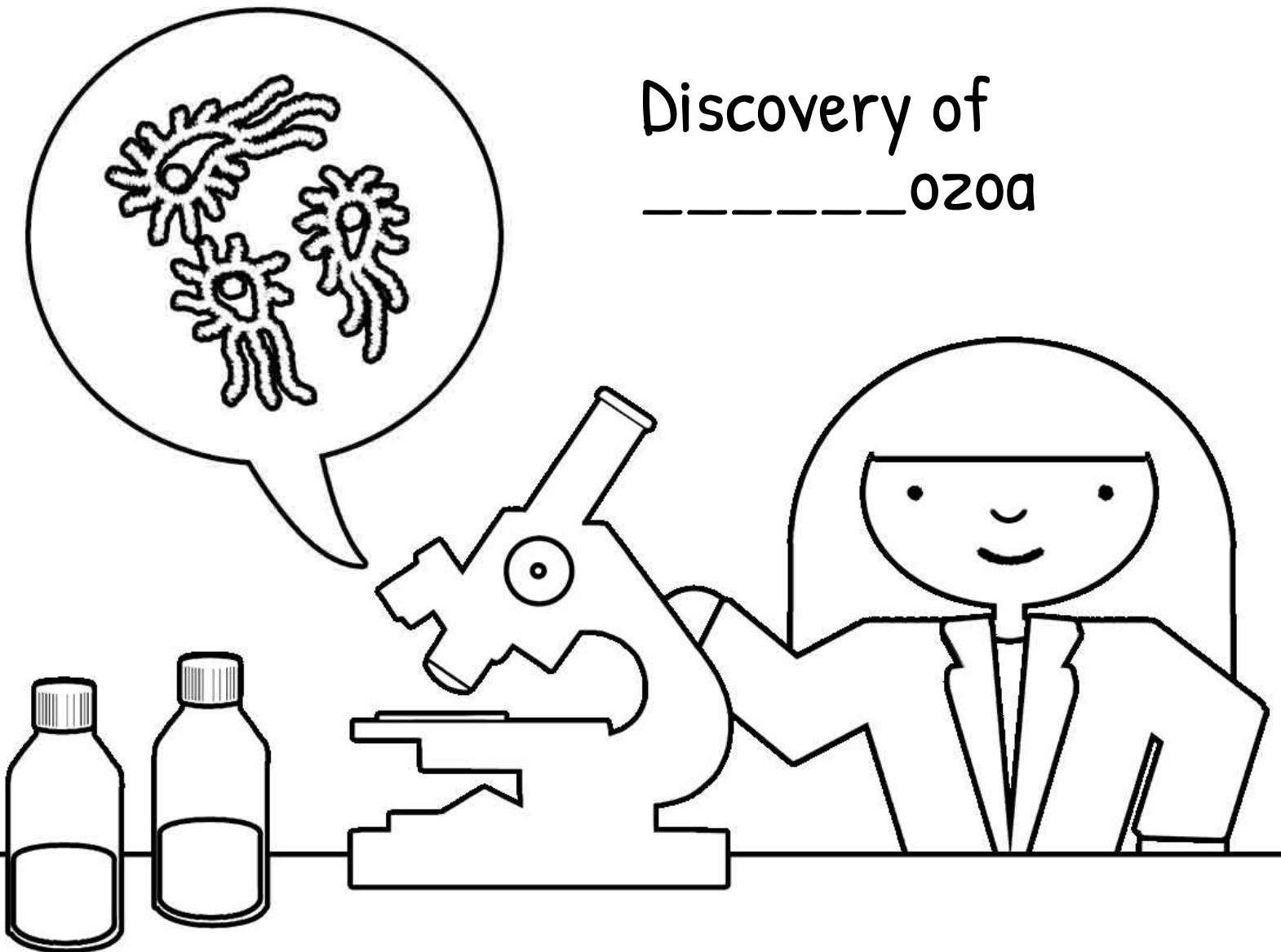


_____ is a veterinarian. She cares for cats and dogs,
and birds, lizards, rabbits, and even hedgehogs.
She rids our fuzzy friends of pesky ticks and fleas,
making all pets healthy by curing disease.

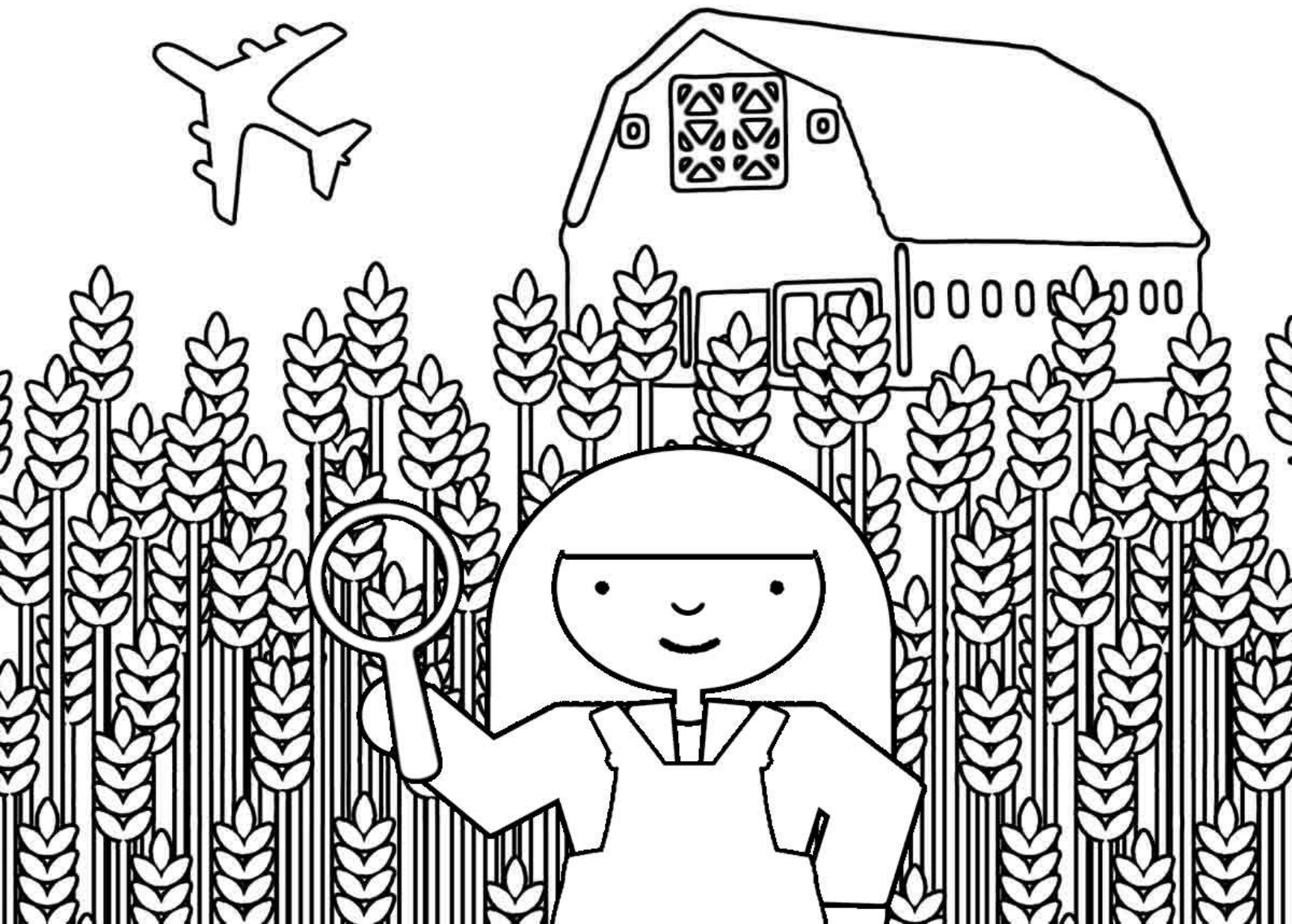


_____ is a biologist. She studies living things,
asking why fish have gills and why birds have wings.
She looks at the blueprint of life called DNA,
to understand why mother nature made us this way.

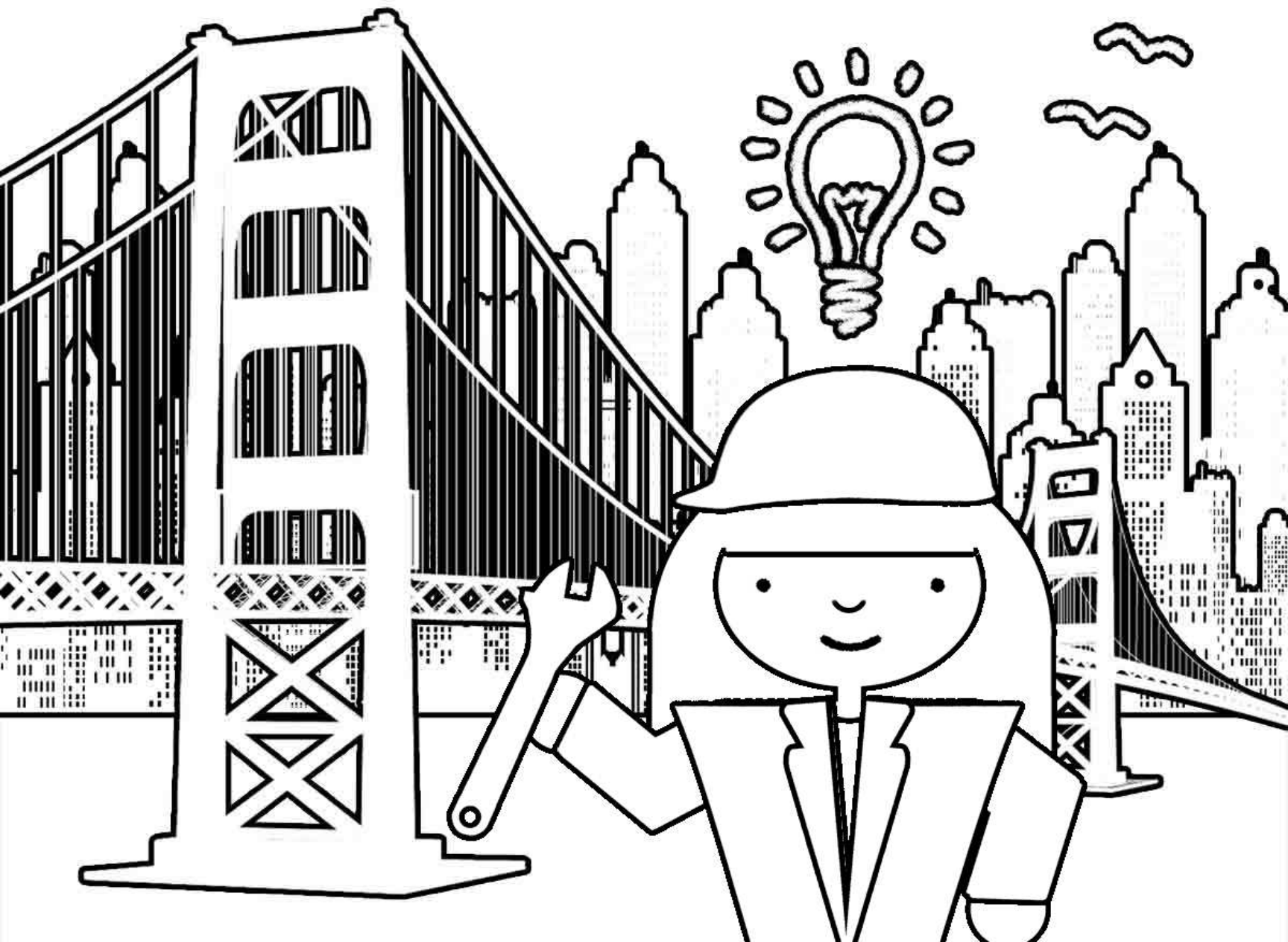
Discovery of
_____o20a



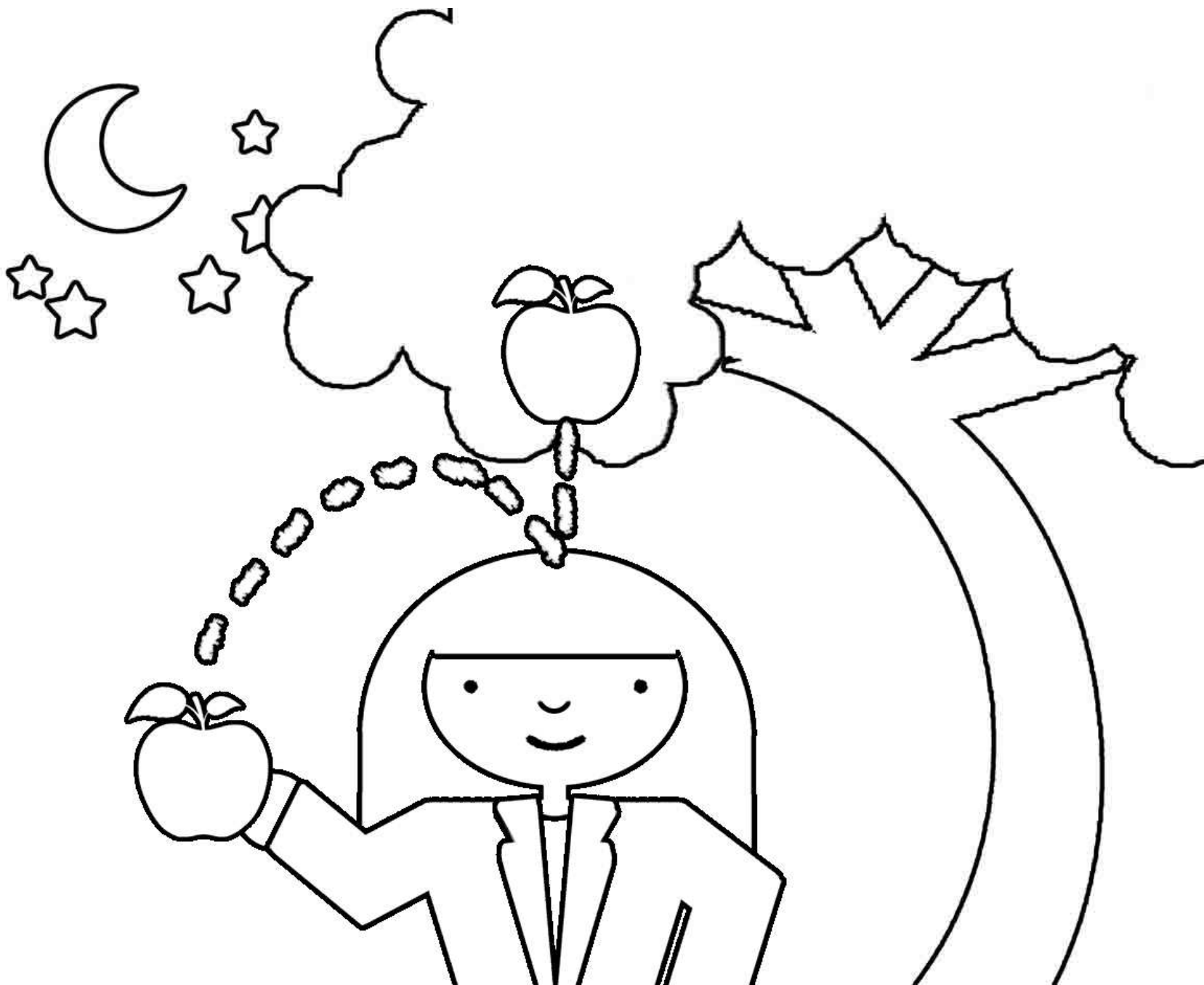
_____ is an agronomist. She is interested in crops,
to grow the sweetest corn to sell to all the shops.
She carefully chooses the seeds, lands, and soils,
to produce healthier foods and sustainable oils.



_____ is an engineer. She aims to find a solution,
to everyday problems like smog and pollution.
She designs buildings, bridges, cars and planes.
Whatever the challenge, she uses her brains.



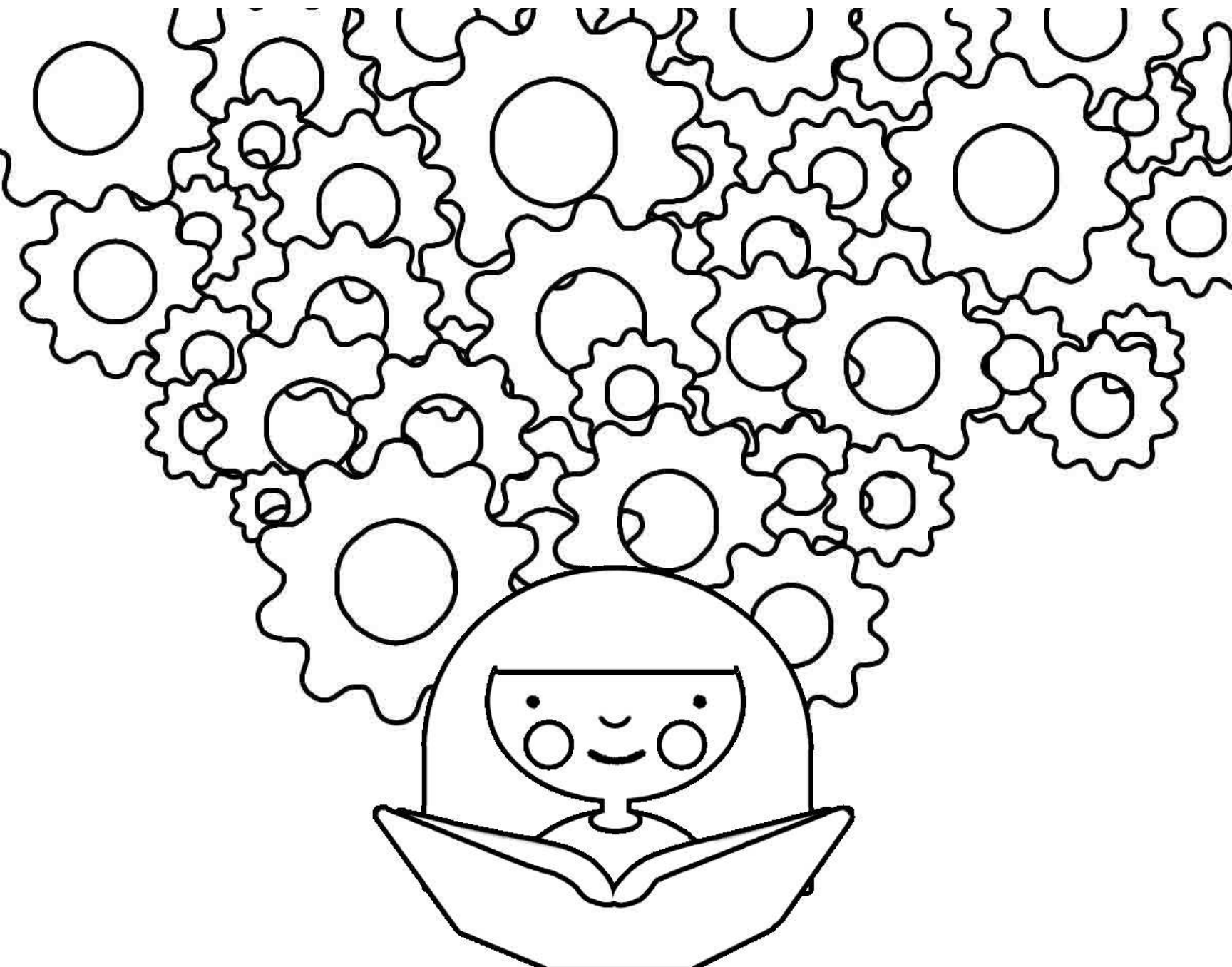
_____ is a physicist. She studies it all,
from galaxies to atoms, from humongous to small.
She wants to discover how the world came to be,
and just why an apple falls from a tree.



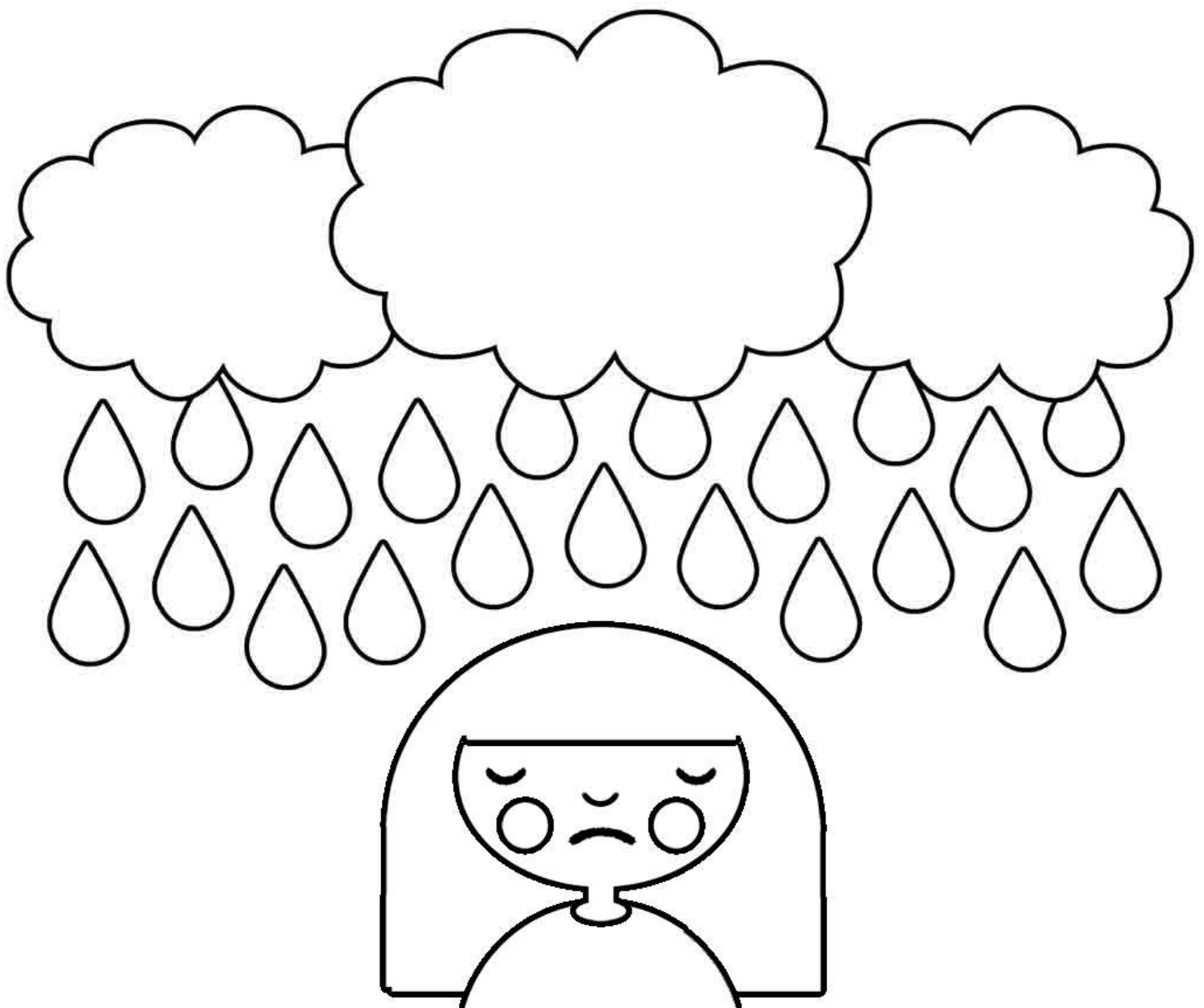
All of these choices, what will _____ explore?

What will she learn? What is waiting in store?

Tomorrow, when _____ wakes to a brand new day,
she will tackle the world in a brand new way.



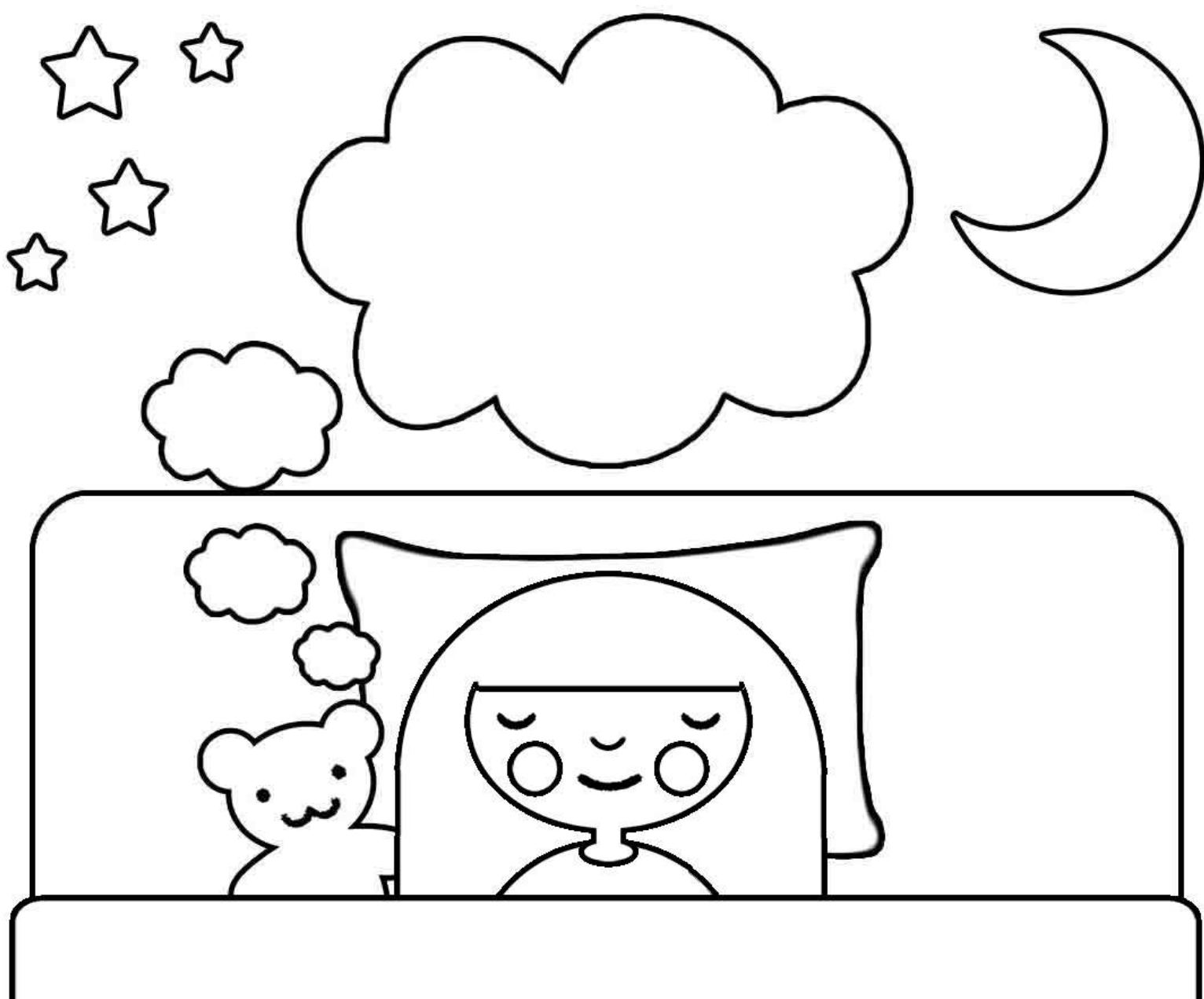
Sometimes it is tough, sometimes it is rough,
sometimes it may feel like enough is enough,
though she may first fail, though she may stumble,
though she may doubt, though she may fumble,



_____ will try again! And she will make it through!
These big dreams she will chase! These big dreams she will pursue!
With hard work _____ big dreams will someday,
Surely change the world in a really big way!



Dream big, _____!



cuSTEMized is a not-for-profit initiative
that encourages kids to envision themselves
in Science, Technology, Engineering, and Math (STEM).

This book was made for

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