_____'s
Little Book of Big Dreams

by Jean Fan &
Curry Chern

pictures by
Jean Fan

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cuSTEMized

As _____ gets ready for bed tonight,
after winding down and being tucked in tight,
he dozes off into his nightly snooze,
and a magical transformation ensues.
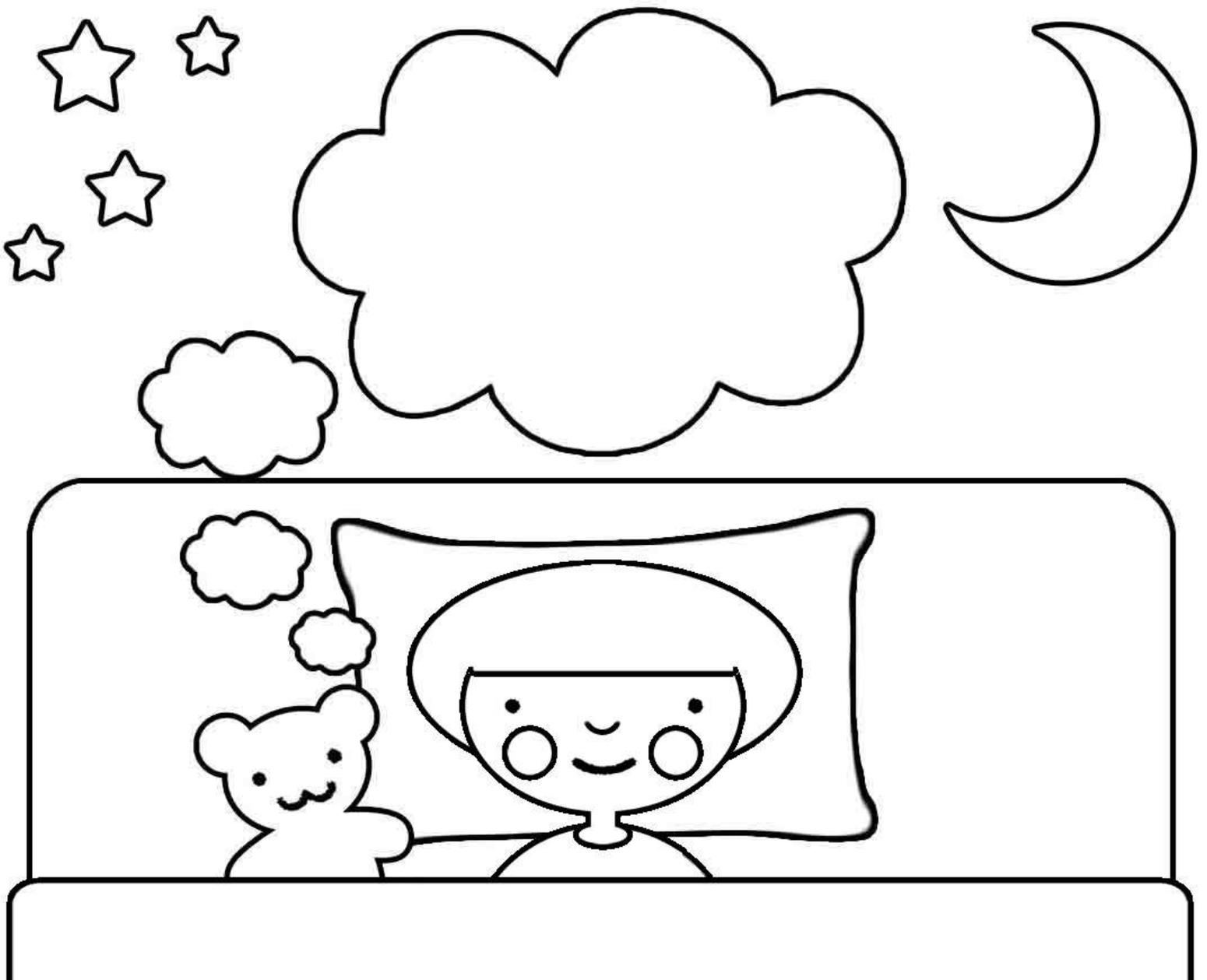
_____ is all grown up with much to do,
with big shoes, big thoughts, and big plans too.
So as _____ sleeps, he begins to see,
what he can do and what he can be.
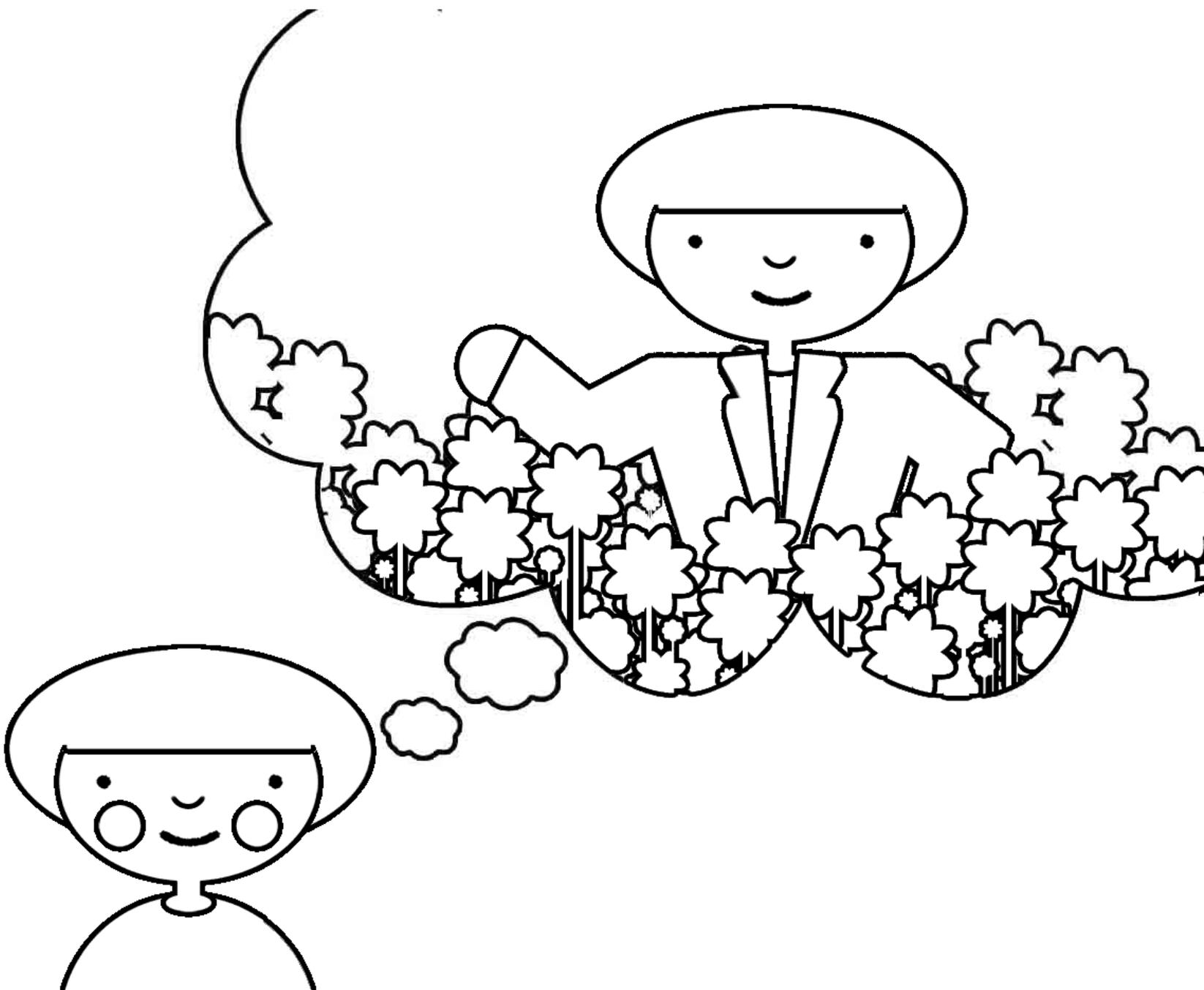
_____ is a chemist. He is a master of potions.

He makes crayons, insulin, and nice smelling lotions.

He mixes chemicals so that they bond or collapse,

to study their reactions and make explosions perhaps.

_____'s
Chemistry Lab

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

Hello,

_____

```java
public class Hello_____ {
  public static main(String[] args) {
    Hello_____ hello_____ =
      new Hello_____();
    hello_____.run();
  }
  private void run() {
    sayHello();
  }
  public void sayHello() {
    System.out.println('Hello, );
    System.out.println('_____');
  }
}
```

_____ is a meteorologist. He studies the sky,
to see if the weather will be wet or dry.
He tracks the paths of storms and hurricanes,
and reminds us to bring umbrellas when it rains.
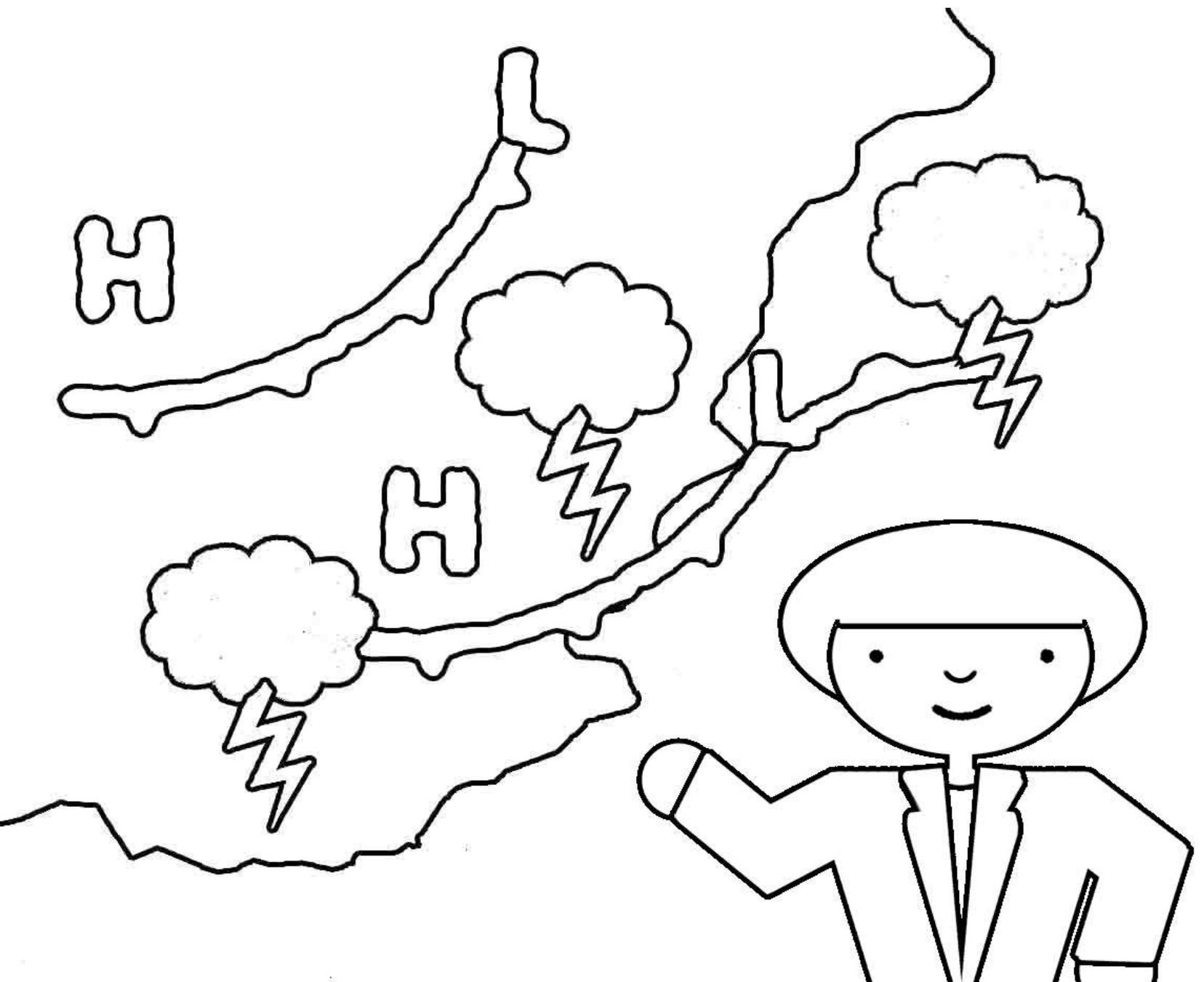
_____ is a doctor. He cures what is feeling wrong,
using science to make sure we are healthy and strong.
He checks our eyes, nose, mouth, and ears,
and tracks our height for years and years.

Doctor

_____
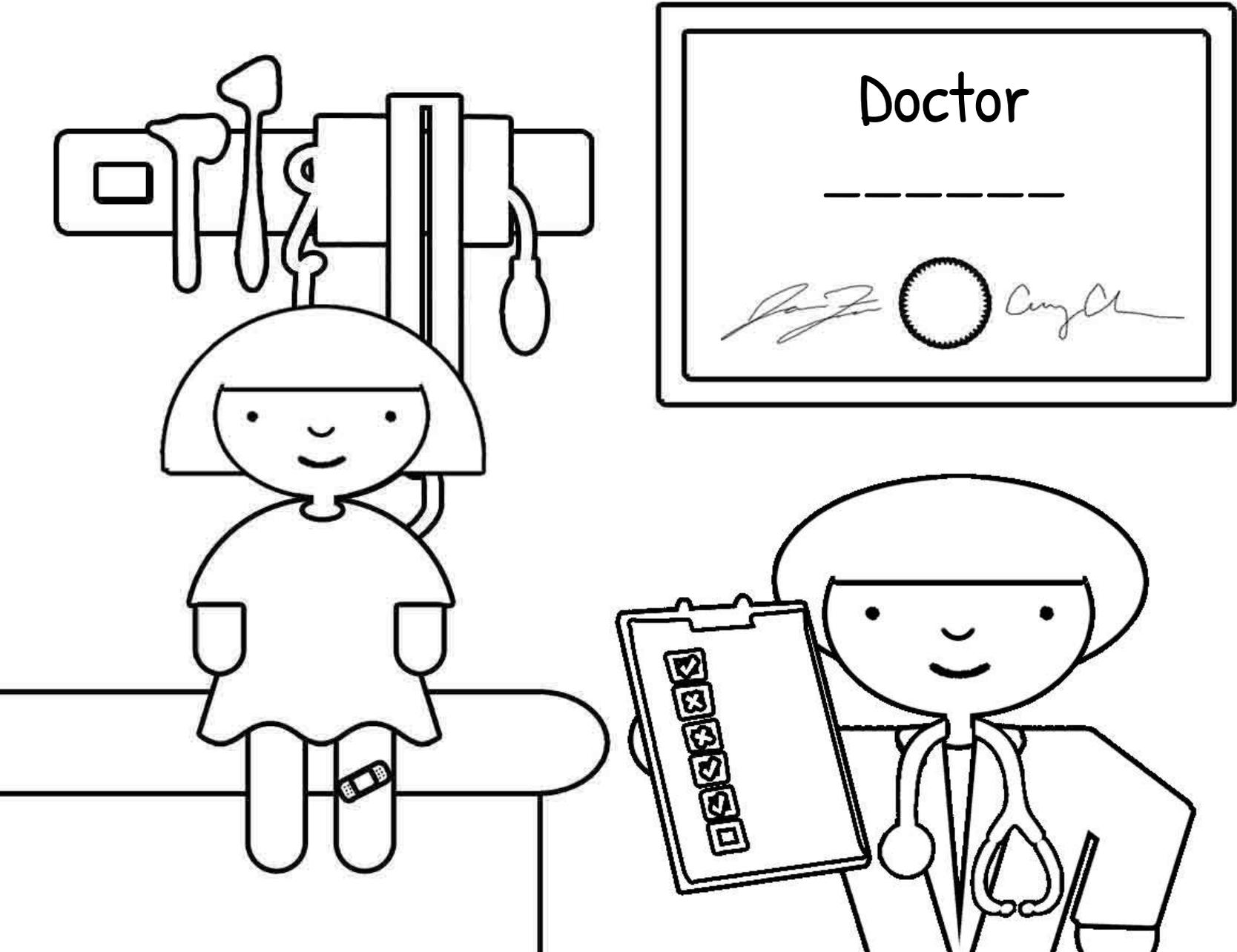
_____ is a mathematician. He loves to count.

He helps shops decide how much money to discount.

He studies numbers and patterns and their properties,

to better understand the world and its commodities.

Derivation of _____'s Formula

$1 + 1 = 2$
$1 + 1 + 1 = 3$
$2 + 1 = 3$
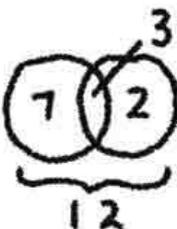
$a^2 + b^2 = c^2$
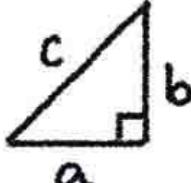
$$2x + y = 3$$
$$x + y = 2$$
$$x = 1$$
$$y = 1$$

```
      1
    1   1
  1   2   1
1   3   3   1
```
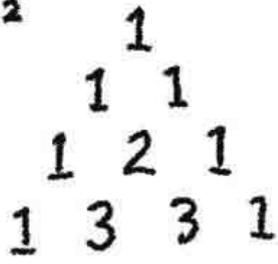
$$\text{if } (x+y)^n = \sum_{k=0}^{n} \binom{n}{k} x^{n-k} y^k$$
$$\text{then } \binom{n}{k} = \binom{n-1}{k-1} + \binom{n-1}{k}$$

$\times 3 \quad \dfrac{3}{\times 4} \over 12$

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

$A = \pi r^2$
$C = 2\pi r$

$f(x) = \dfrac{1}{\sigma\sqrt{2\pi}} e^{\frac{-(x-M)^2}{2\sigma^2}}$
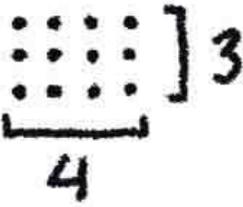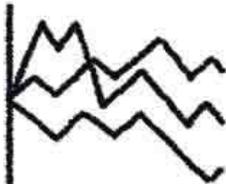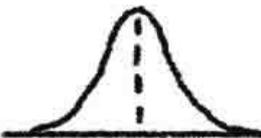
```
      76 r 4
  8 ) 612
     -56
      52
     -48
       4
```
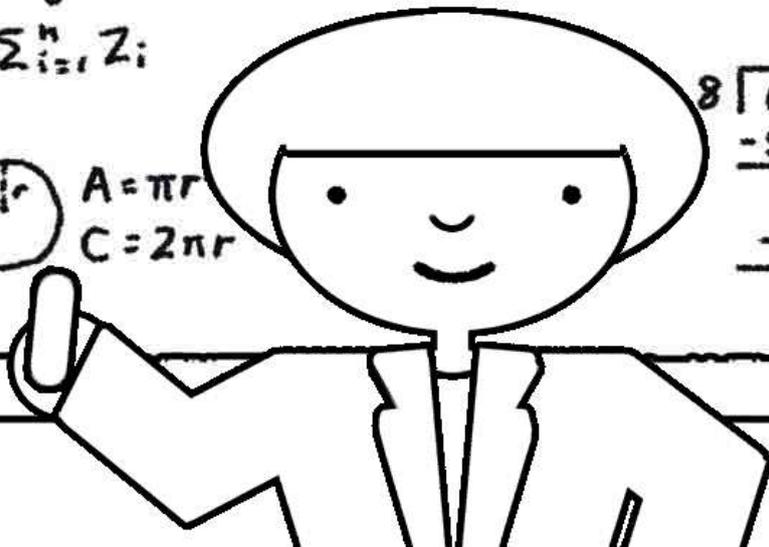
_____ is an astronaut. He flies into space,
searching for the presence of an alien race.
He floats among the planets, moons, and stars,
to become the first person to land on Mars.

_____
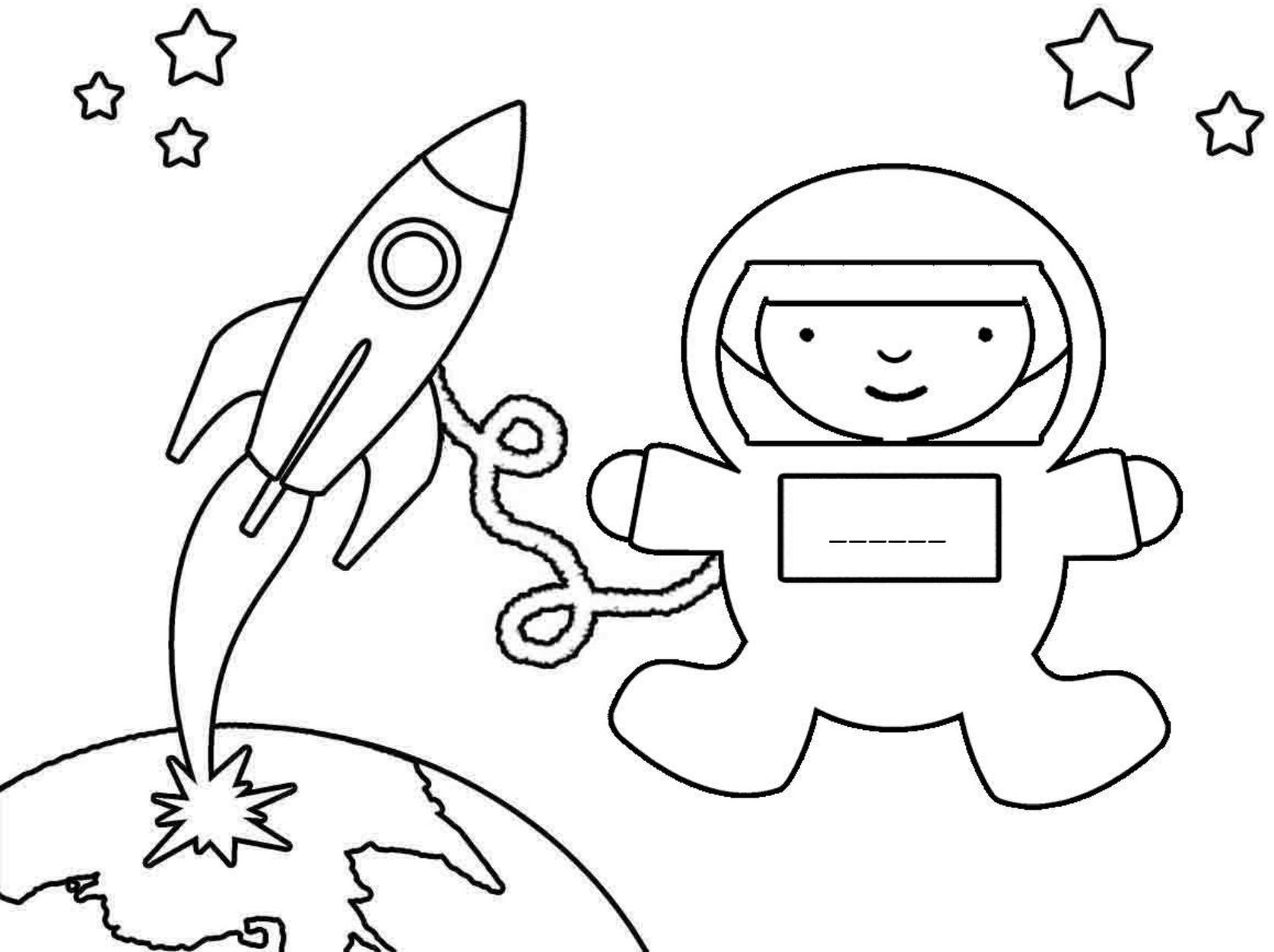
_____ is a veterinarian. He cares for cats and dogs,
and birds, lizards, rabbits, and even hedgehogs.
He rids our fuzzy friends of pesky ticks and fleas,
making all pets healthy by curing disease.
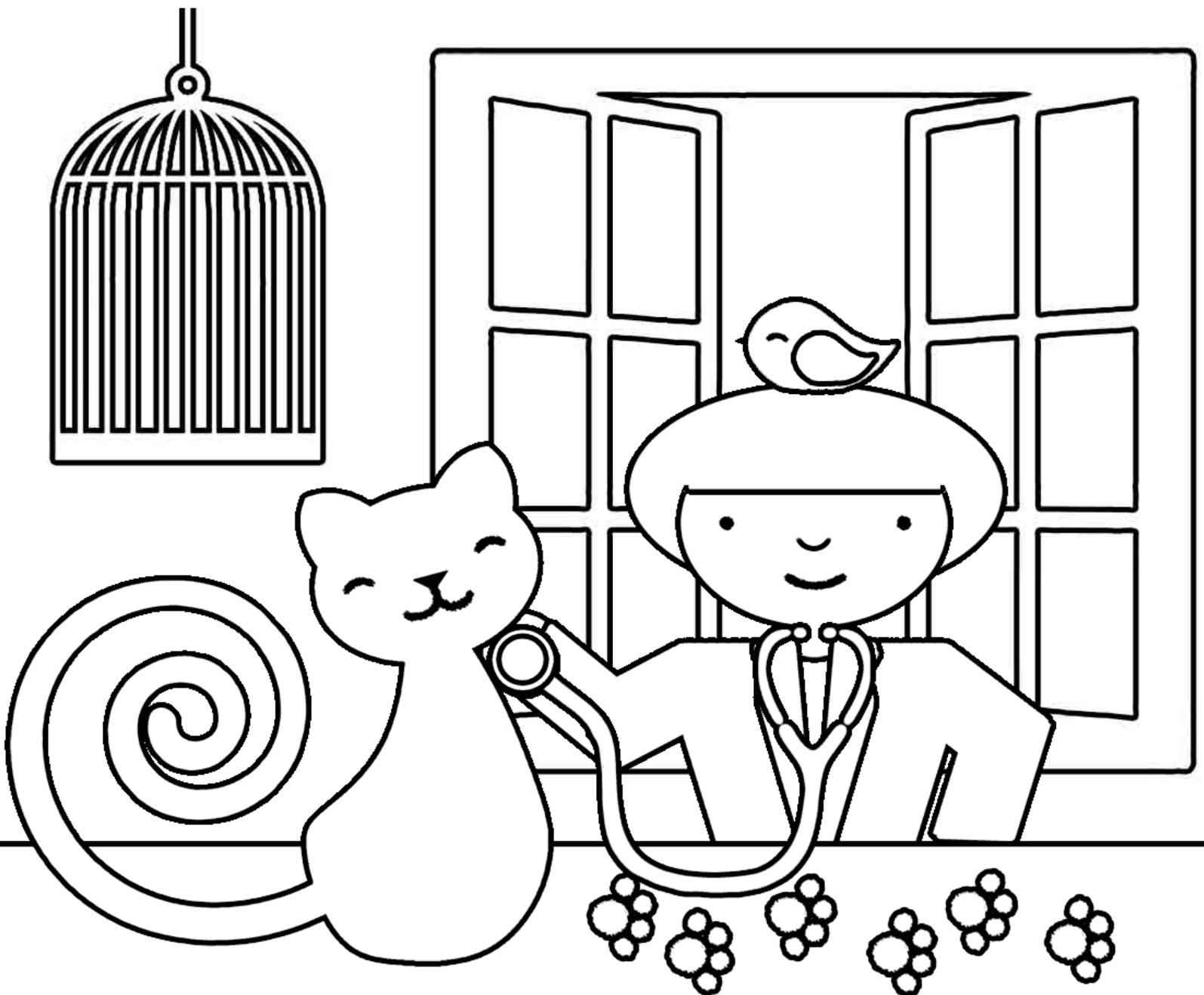
_____ is a biologist. He studies living things,
asking why fish have gills and why birds have wings.
He looks at the blueprint of life called DNA,
to understand why mother nature made us this way.
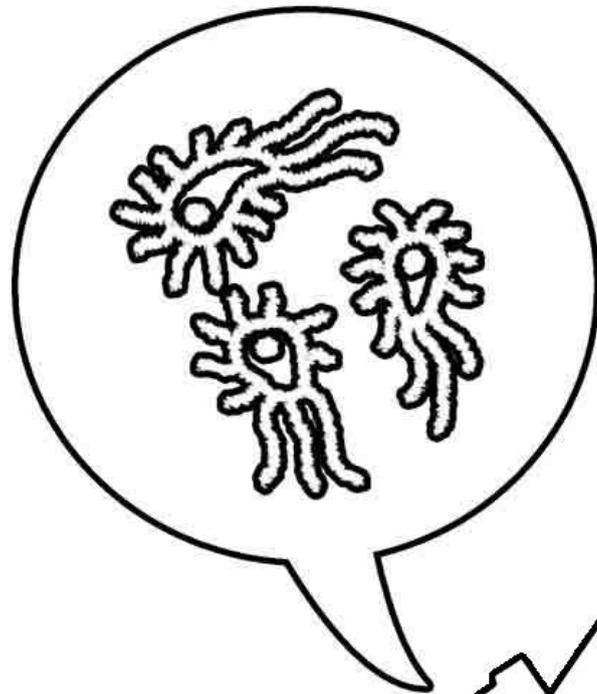
Discovery of
_____ozoa
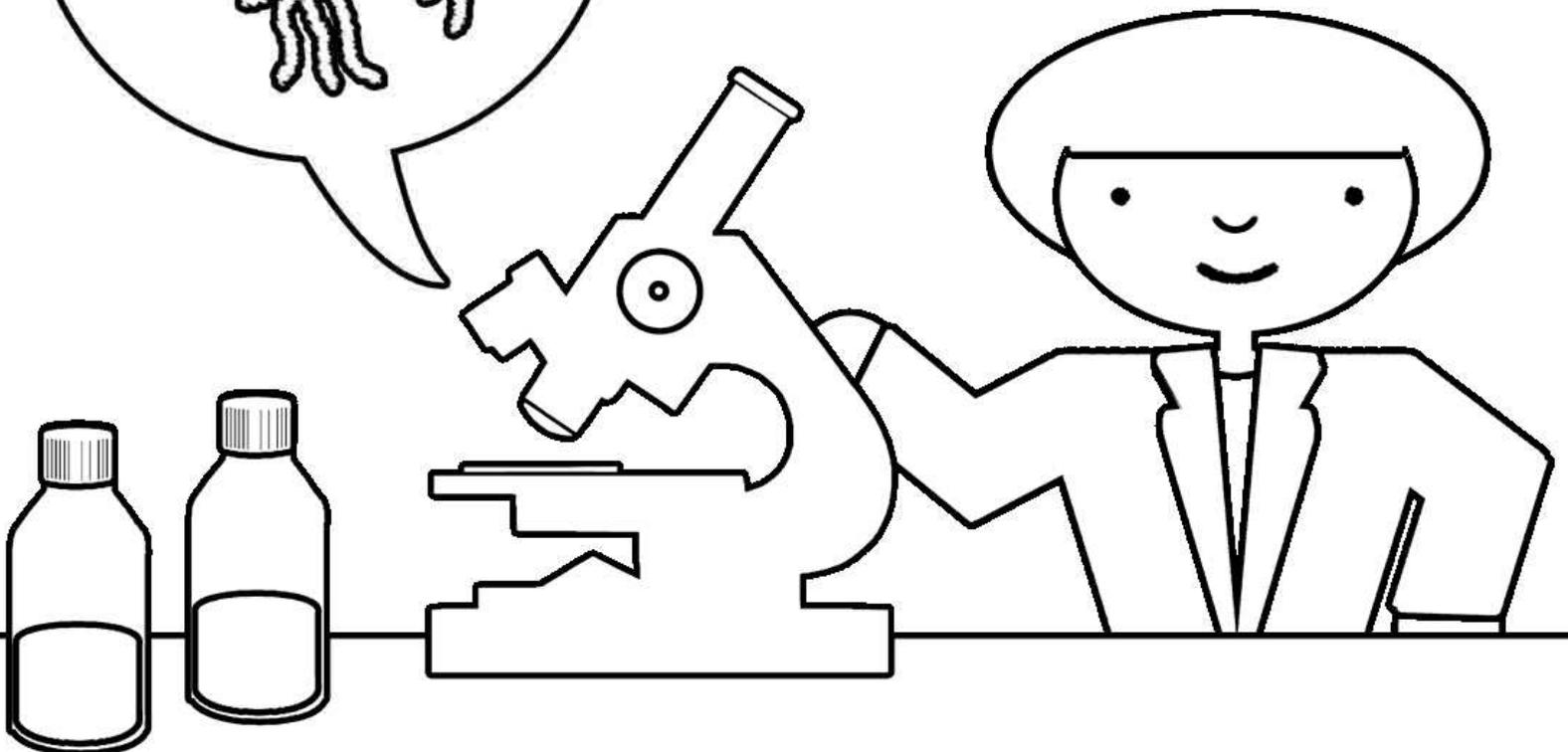
_____ is an agronomist. He is interested in crops,
to grow the sweetest corn to sell to all the shops.
He carefully chooses the seeds, lands, and soils,
to produce healthier foods and sustainable oils.
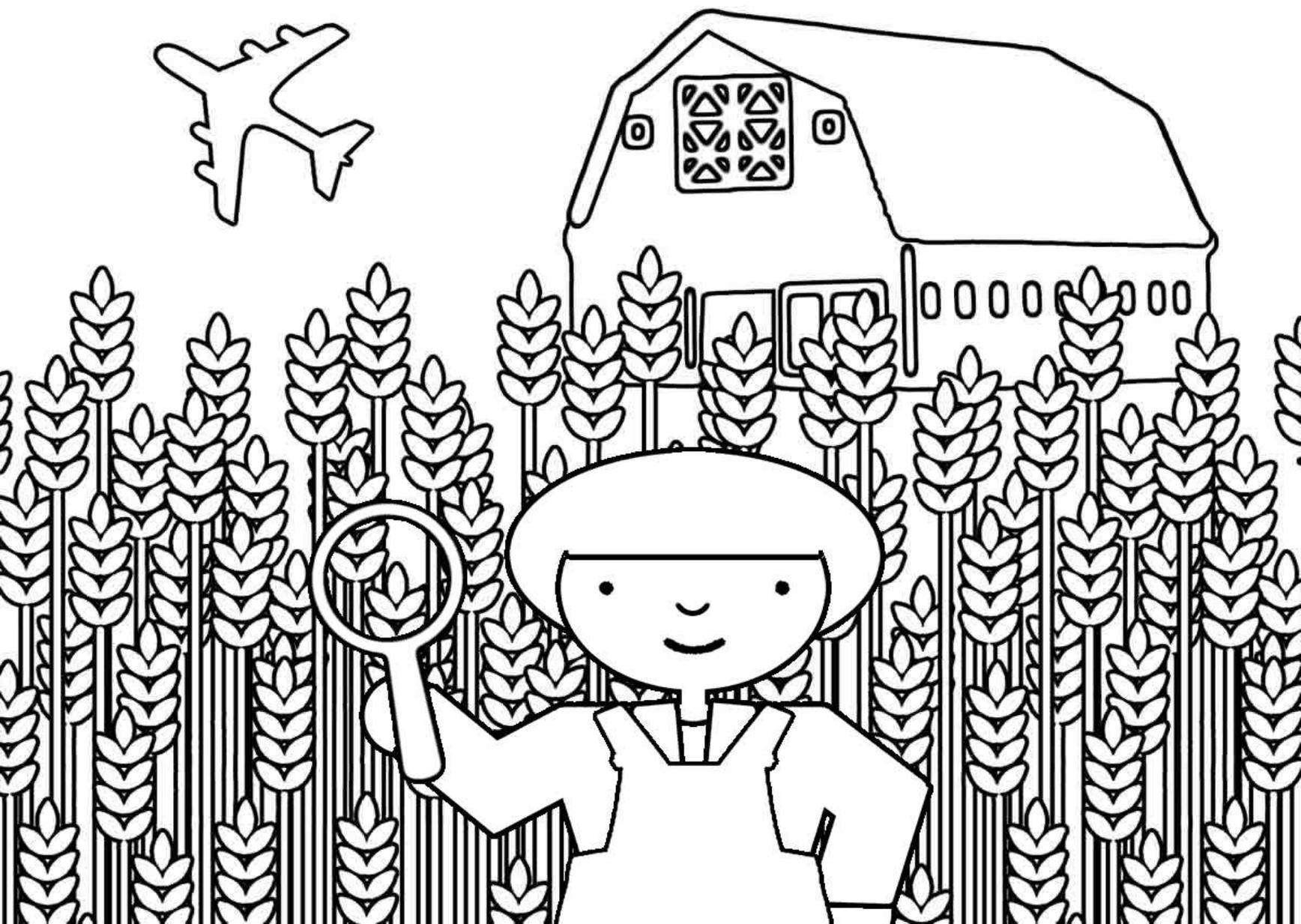
_____ is an engineer. He aims to find a solution,
to everyday problems like smog and pollution.
He designs buildings, bridges, cars and planes.
Whatever the challenge, he uses his brains.
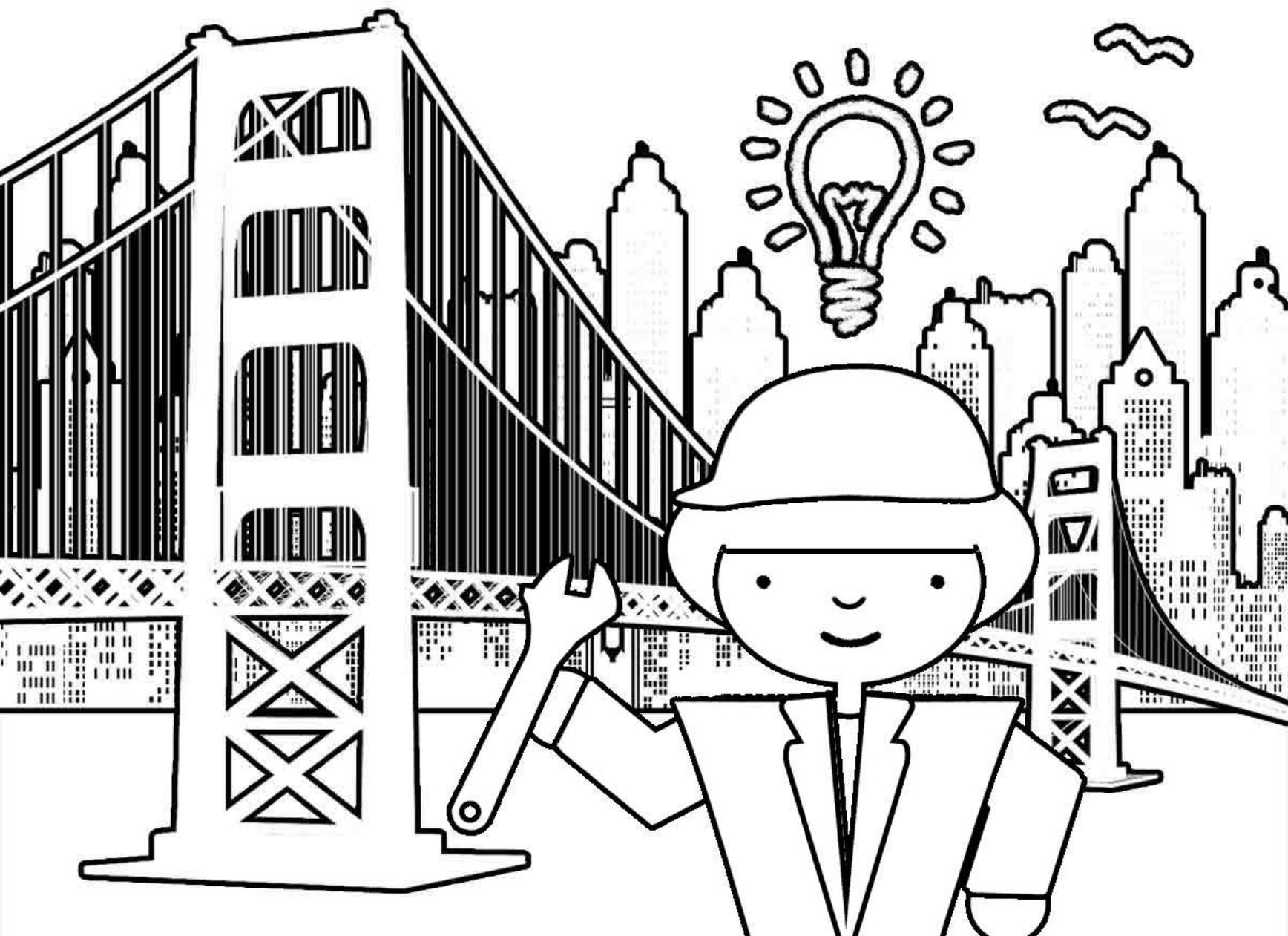
_____ is a physicist. He studies it all,
from galaxies to atoms, from humongous to small.
He wants to discover how the world came to be,
and just why an apple falls from a tree.
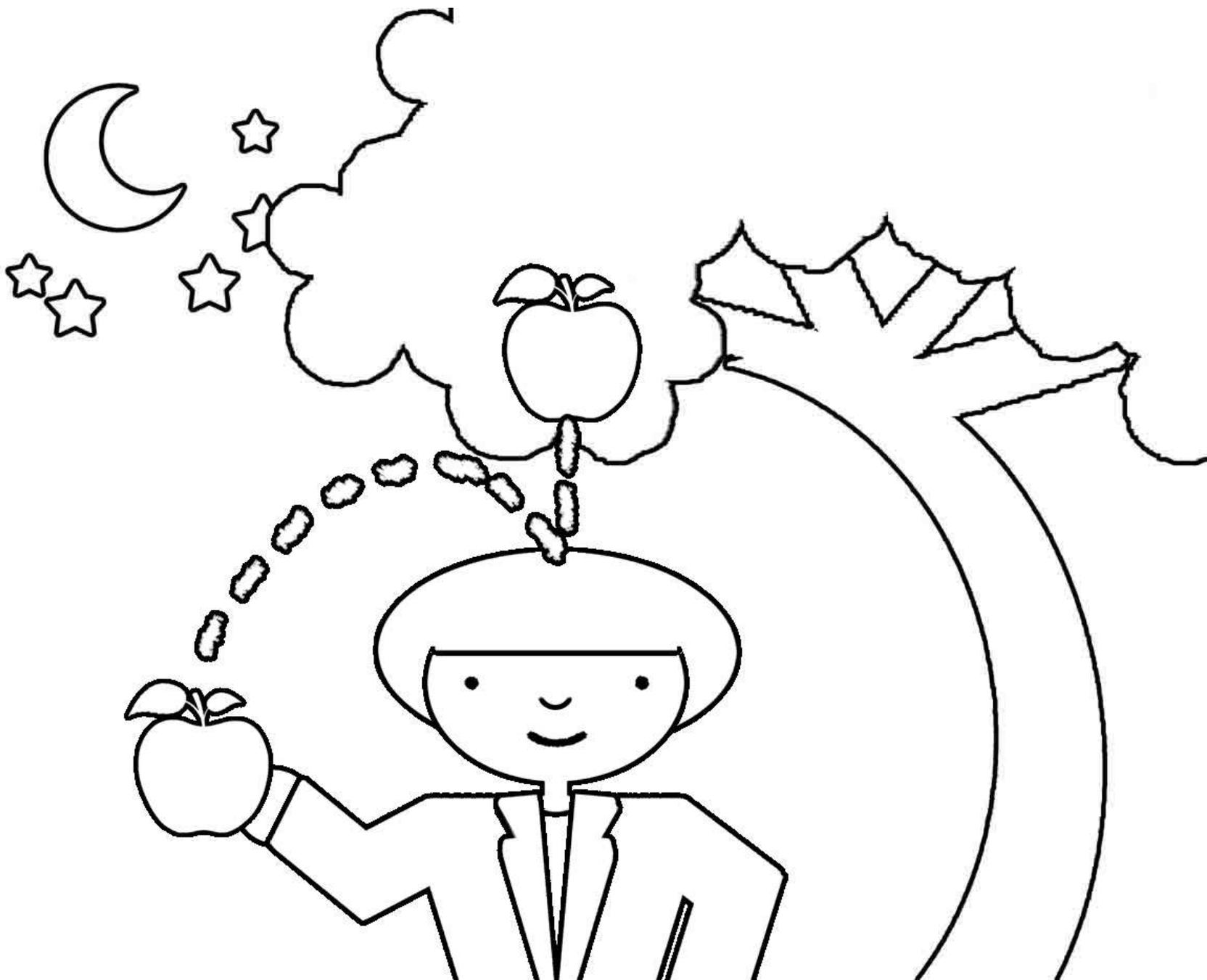
All of these choices, what will _____ explore?

What will he learn? What is waiting in store?

Tomorrow, when _____ wakes to a brand new day,

he will tackle the world in a brand new way.
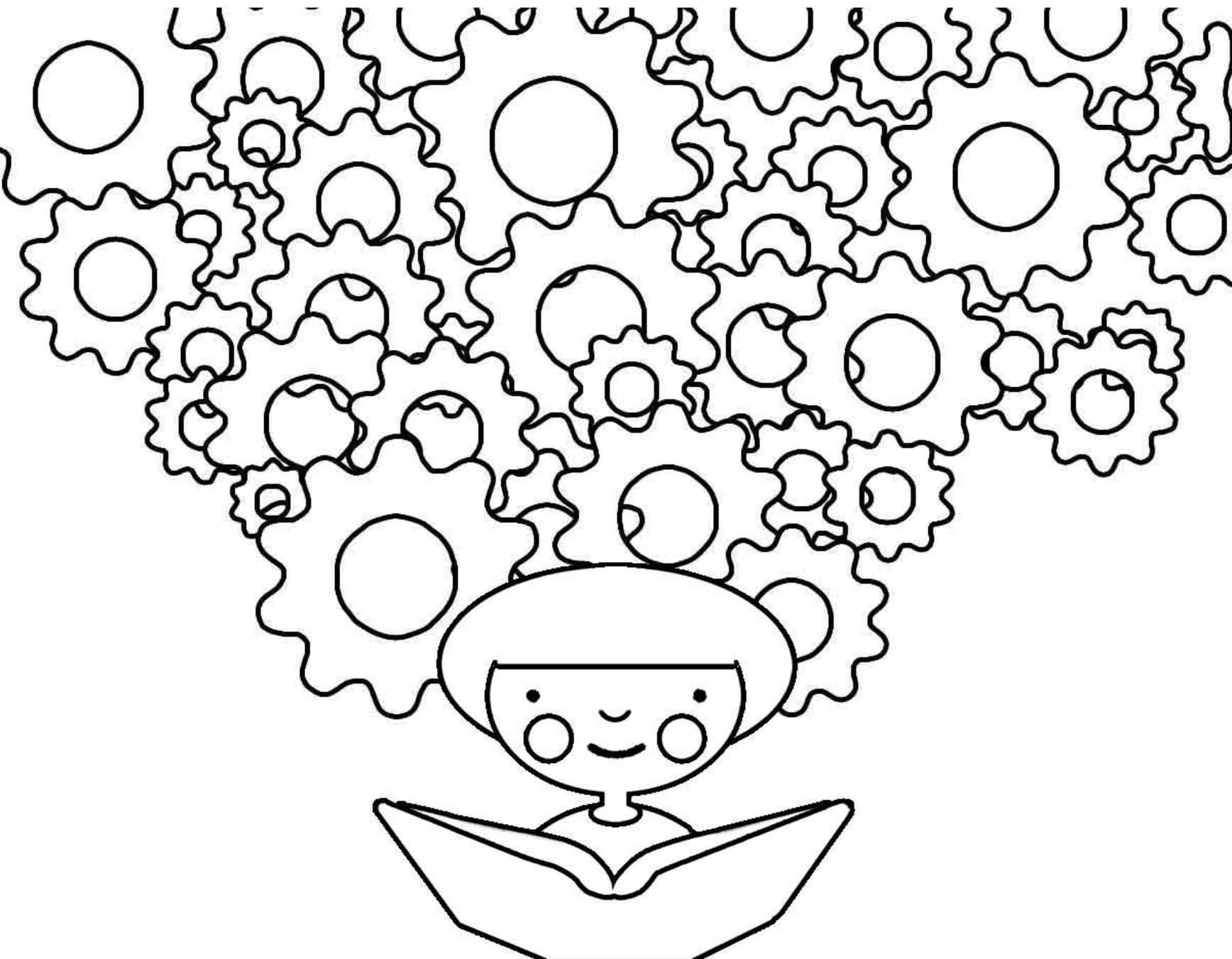
Sometimes it is tough, sometimes it is rough,
sometimes it may feel like enough is enough,
though he may first fail, though he may stumble,
though he may doubt, though he may fumble,

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

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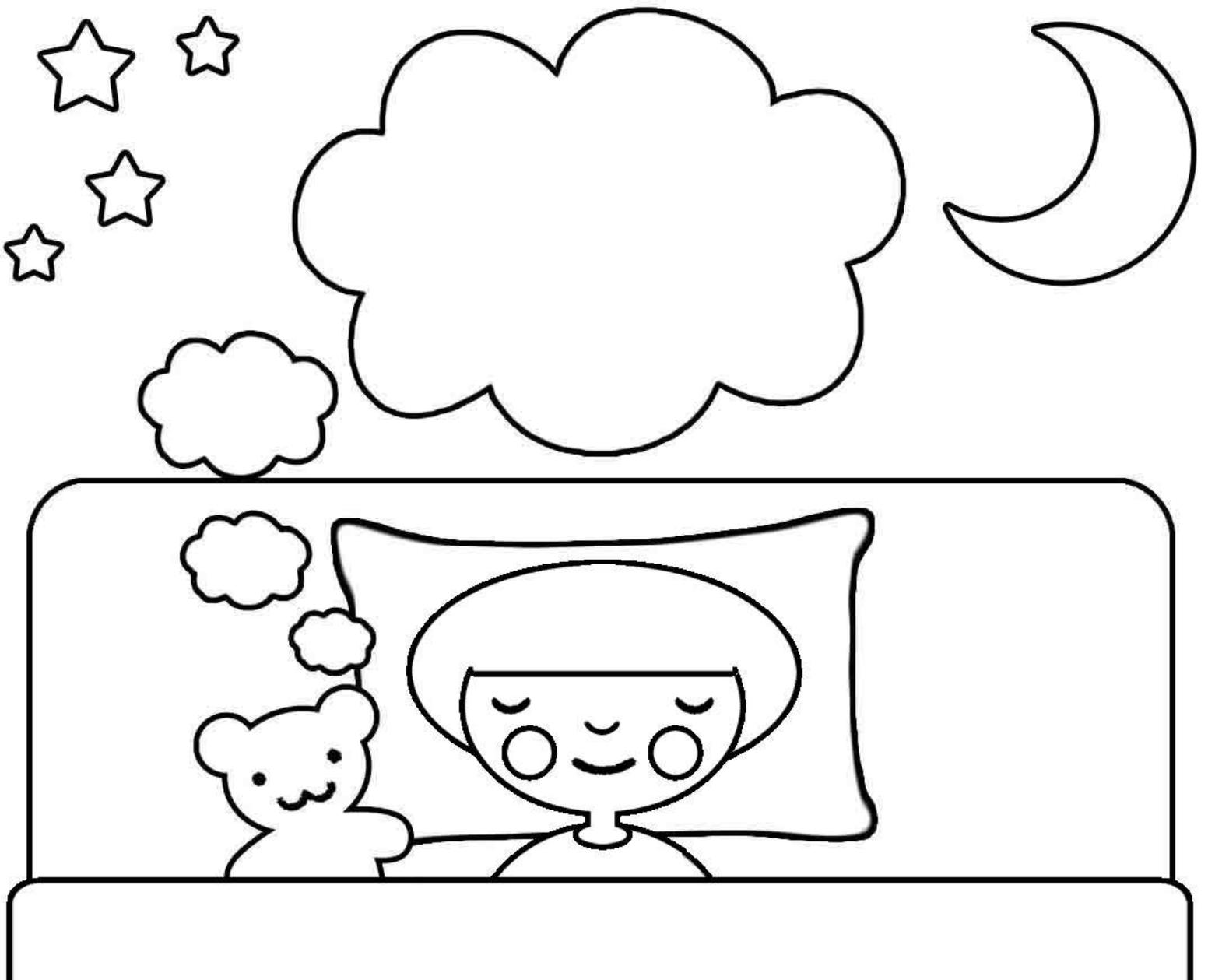
cuSTEMized is a not-for-profit initiative
that encourages kids to envision themselves
in Science, Technology, Engineering, and Math (STEM).

This book was made for

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