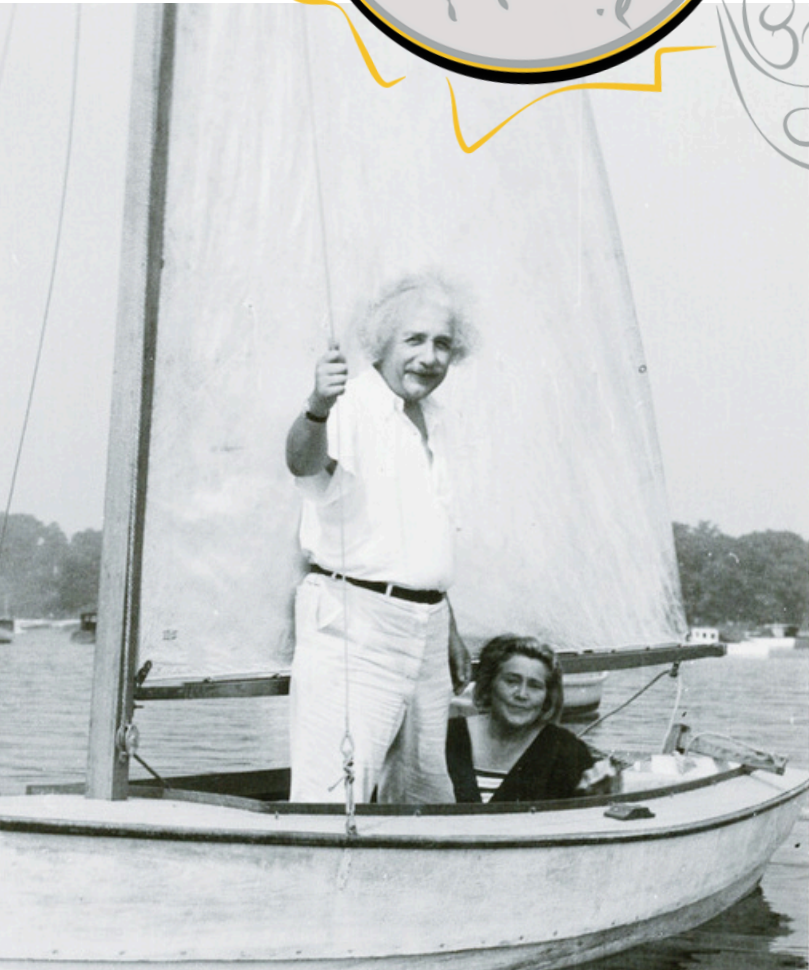
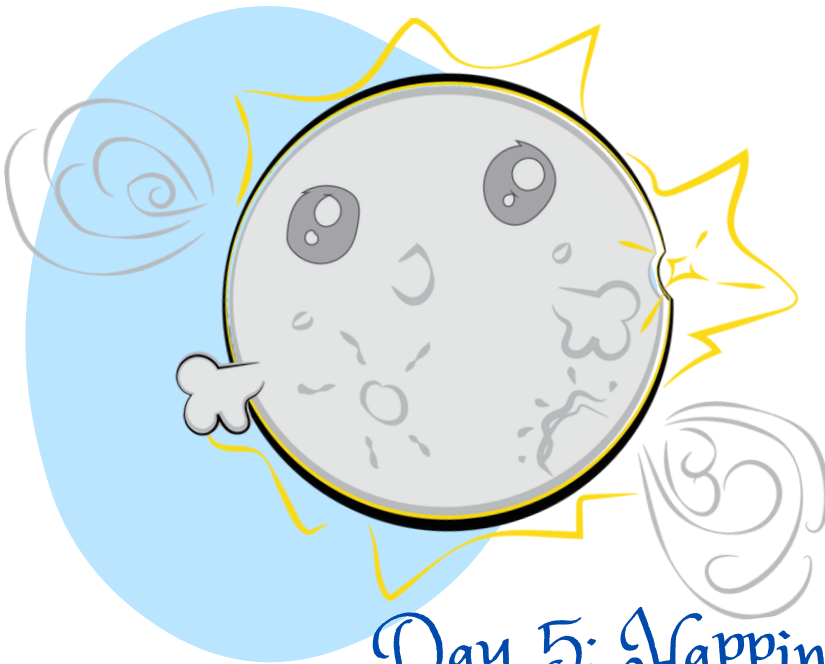


*Day 5: Happiness!*





## Day 5: Happiness!

Interactive Story Ideas!



**Storytelling Role-Play: 1-5 sand dollars each**

**(2 Students to help cut out props and 6 students to role play)**

Choose 4 boy volunteers and 4 girl volunteers to be Einstein, Addington, the bellboy, stars, the Sun and moon for the eclipse, monkeys in Principe and an announcer in Sweden. The rest of the class can join as the adoring crowd in Japan.



**New word: 1-5 sand dollars**

**Eclipse:** An eclipse happens when the moon comes between the earth and the sun covering up the sun. The sky goes dark for a few minutes during the day.

\*Remind the students that they can earn a sand dollar if they tell you at the end of the story what the new word means. If they get it wrong remind them of the definition and have them try again in a few minutes.

## Day 5 Albert Einstein: Happiness!

If the shape of space really is curved, then stars should be shifted slightly out of place when the Sun is out. The problem is... seeing stars when the Sun is out is only possible during a solar eclipse! In 1919, British astrophysicist Arthur Eddington packs up a giant telescope into parts (**Telescope prompt, cut out in parts and pack separately**) and goes on an exciting voyage to the African island of Principe to view an eclipse. Another group of astronomers go to Sobral, Brazil to also view the eclipse. All of them are working to see if they can prove Einstein's theory on gravity and how the mass of an object can change the shape of space itself!

When Eddington reaches Principe, the conditions aren't great. He sets up his telescope, then works under mosquito nets and chases off monkeys trying to steal bits of his equipment. (**Monkey ears prompt, dart around sneakily taking parts of equipment!**) Soon, there is a storm, clouding visibility. The eclipse happens! (**Sun and moon prompt. Moon covers Sun**). The other team takes a picture that shows the stars are in a slightly different position during the eclipse, just as Einstein predicted! (**Star prompt, star shuffles**). The fact that Eddington and his team are brave and dedicated enough to go on these expeditions shows how deeply Einstein's work has influenced others.

*Revolution in Science! The New Theory of the Universe! Space Warped!* read the newspaper headlines, as the world finally sees that Einstein's theories make sense.

It is 1921, and Einstein finds out that he has won the biggest, most important prize in science called the Nobel Peace Prize. (**Nobel Peace Prize prompt, hold up the medal and announce it in Sweden**). Instead of going to the award ceremony in Stockholm, Sweden, he continues with his plans to go and give a lecture in Tokyo, Japan.



**Play in the background for the rest of the story:**

Play this video with the sound off, in the background on a big screen, smart board, or laptop. Remember volume muted and subtitles turned off. Einstein's Life in America Shown in Stunning Home Movies  
[https://www.youtube.com/watch?v=LOTlx\\_UK08I](https://www.youtube.com/watch?v=LOTlx_UK08I)

THOUSANDS of people swarm to congratulate him at this very special moment, and a bellboy comes to Einstein's room to make a delivery. (**Bellboy cap prompt, knock on the door**). He knocks on the door, glancing curiously at this enigmatic man as Einstein fishes around for something.

Einstein gives him a tip—but not the coin or cash kind! On two separate sheets of paper from his hotel room, he writes down two important theories about happiness. Because today, he feels just as happy as the house cat, Tiger, on a sunny, sunny day. (**Note prompt, fold it in quarters and hand to the bellboy**).

## Day 5 Albert Einstein: Happiness!

The bellboy opens one note. It says:

*"A calm and modest life brings more happiness than the pursuit of success combined with constant restlessness."*

The bellboy unfolds the second sheet of paper.

There, scrawled in German in Einstein's signature script, are the words all of us could live by:

*Where there's a will, there's a way.*

In 1932 Einstein left his home country of Germany, never to return. His life was in danger. The Nazis wanted to kill him. They burned his manuscripts and books and told people his theories were false. He came to the United States. A new Institute for Advanced Study was created at Princeton University in New Jersey. This is where Albert Einstein would work for the rest of his life.

Einstein made an unforgettable mark in the world of science and physics—like a curve in the fabric of spacetime around which many other theories now orbit.

He was school-less for a while, country-less at times, often penniless and jobless... but he was never hopeless. To Einstein, the greatest joy isn't in being a celebrity or getting an award. It is still in being able to lose himself in his thought experiments during long walks, playing the violin, encouraging students to ask why, just like he did with his compass. To him, joy is in being happy with what he has.



### Questions/Reading discussion: 1-5 sand dollars

**Ask:** What did the astronomers go to see to prove Einstein's theory on gravity?

Example: **They needed to take a picture when the stars were visible during the day which needed to be done during an eclipse.**

**Ask:** What prize did Einstein win?

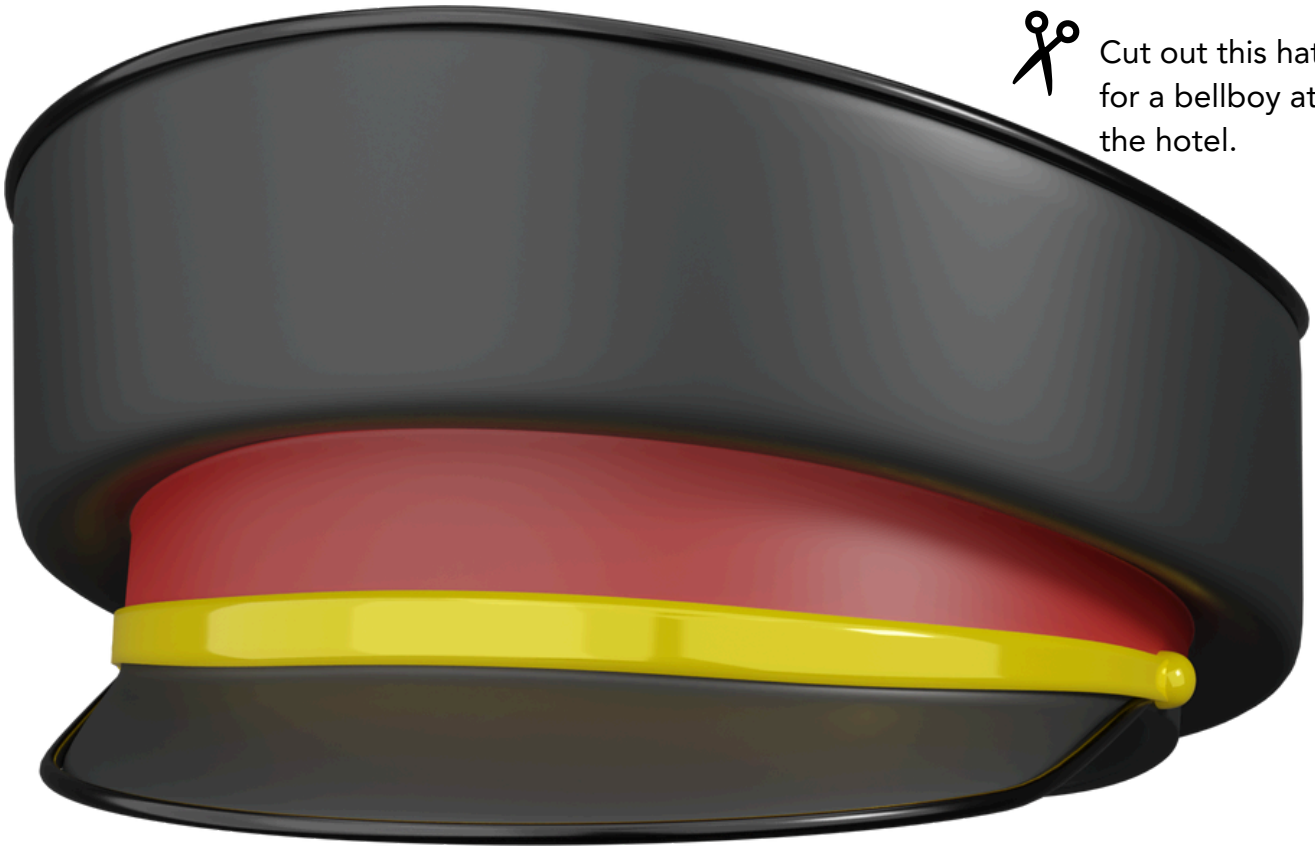
Example: **The Nobel Peace Prize.**


**Ask:** What part of his work do you think made Einstein most happy?

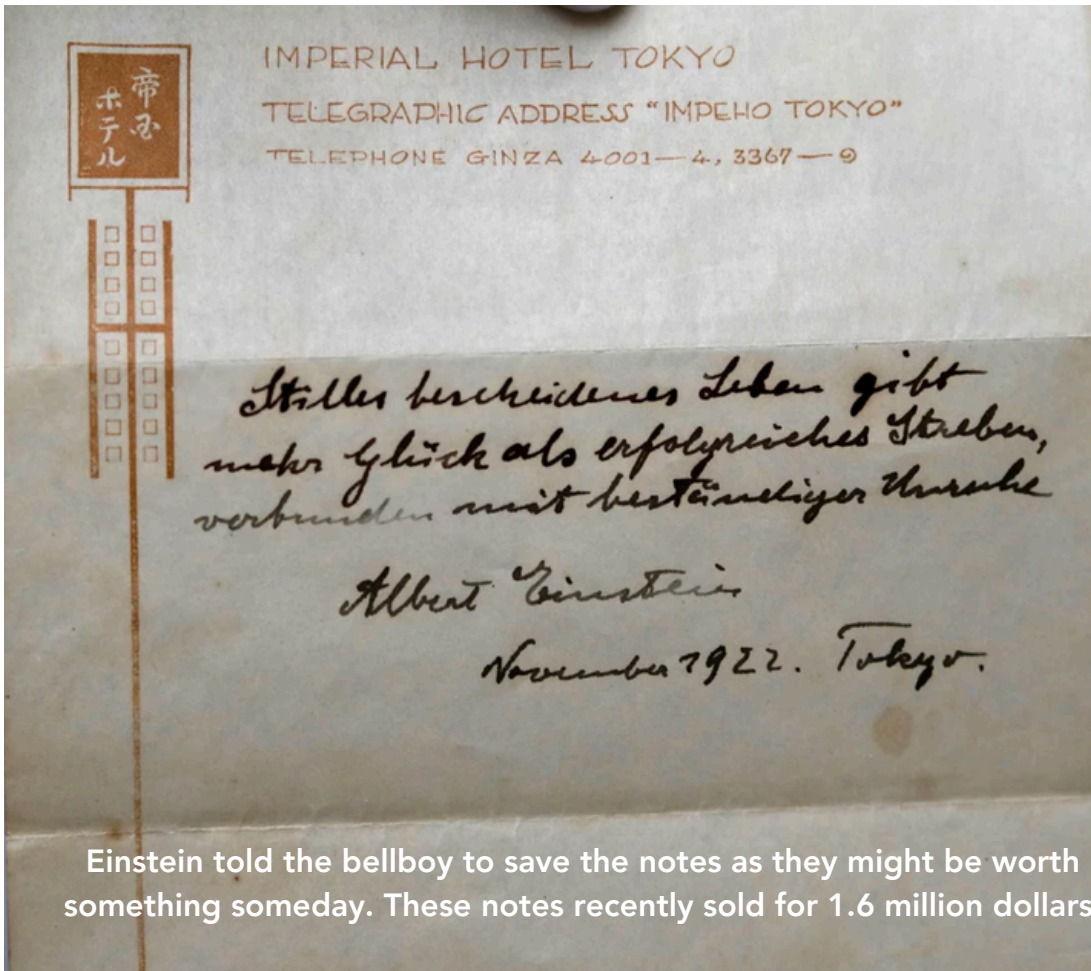
Example: **Answers will vary. Allow students to share a variety of answers and exchange ideas.**


**Ask:** What is a why question you're excited about exploring?

Example: **Answers will vary.**



 Cut out this hat for a bellboy at the hotel.



 Cut out this note for Einstein to give to the bellboy.

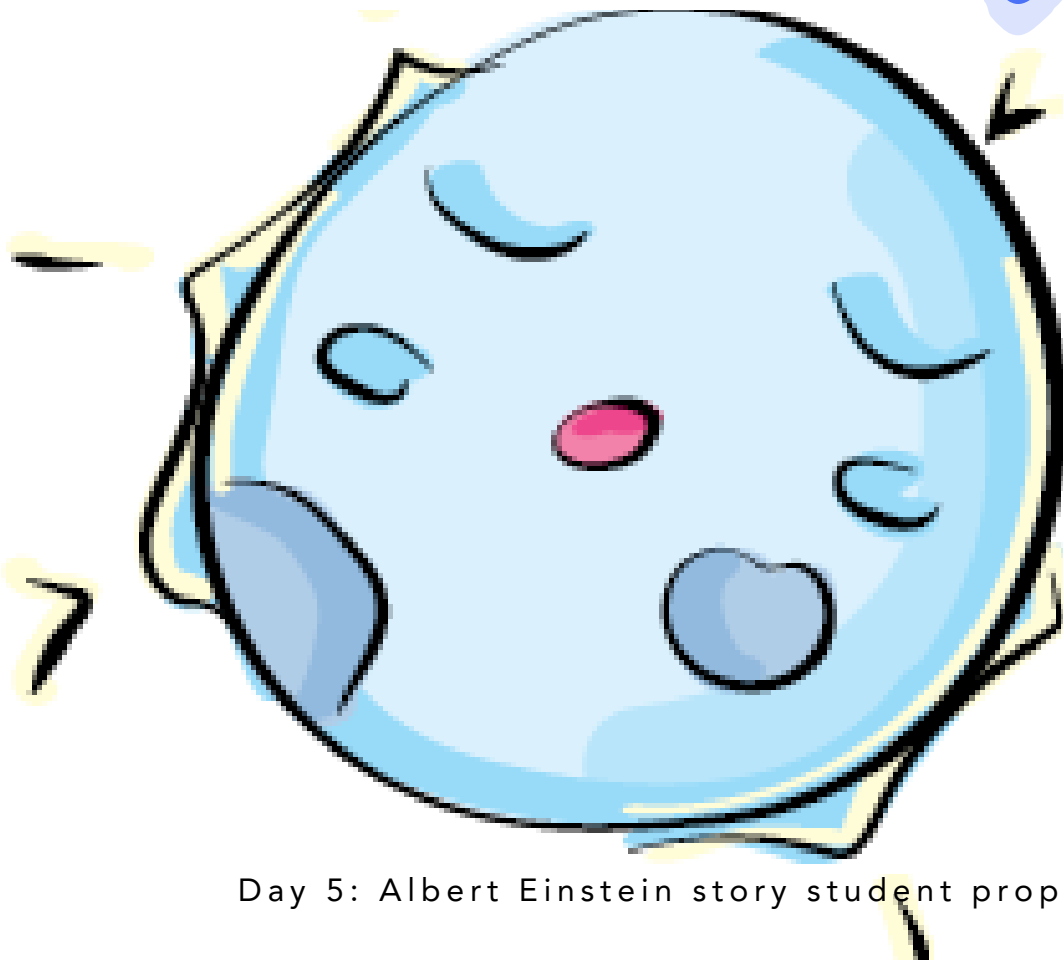
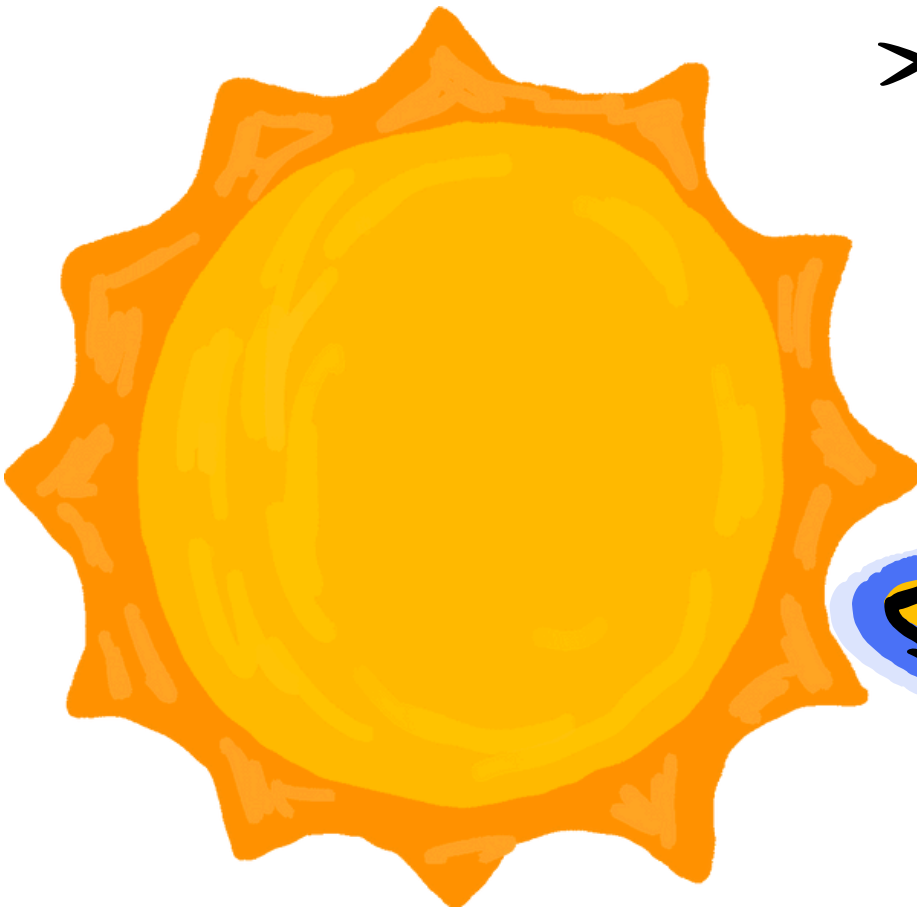
Einstein told the bellboy to save the notes as they might be worth something someday. These notes recently sold for 1.6 million dollars!

**Bellboy:** Tip your cap  
and make a delivery.  
Take the note and  
unfold it when you read  
it out loud.

**Einstein:** Fold this  
note and give it to  
the bellboy with a  
smile and a wink.



Cut these out separately to demonstrate the eclipse. The moon will go in front of the Sun and the stars will shift positions by shuffling one step in any direction.



**Star:** Shuffle one step in any direction when the moon covers the Sun.

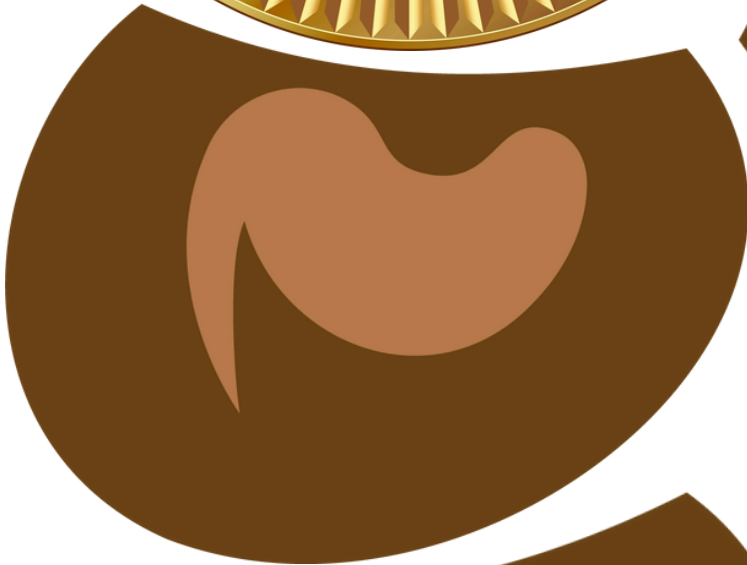
**Sun:** Shine brightly and smile until the Moon comes in front.

**Moon:** Cover the Sun completely by moving in front.





Cut this out for the announcer in Sweden.



Cut ears out for the monkeys.

**Nobel Prize announcer:**

Hold this shiny medal  
and say: "And the Nobel  
Peace Prize goes to  
Albert Einstein!"

**Monkey:** Hold the  
ears onto your head  
and sneakily take  
bits of equipment  
from the telescope.

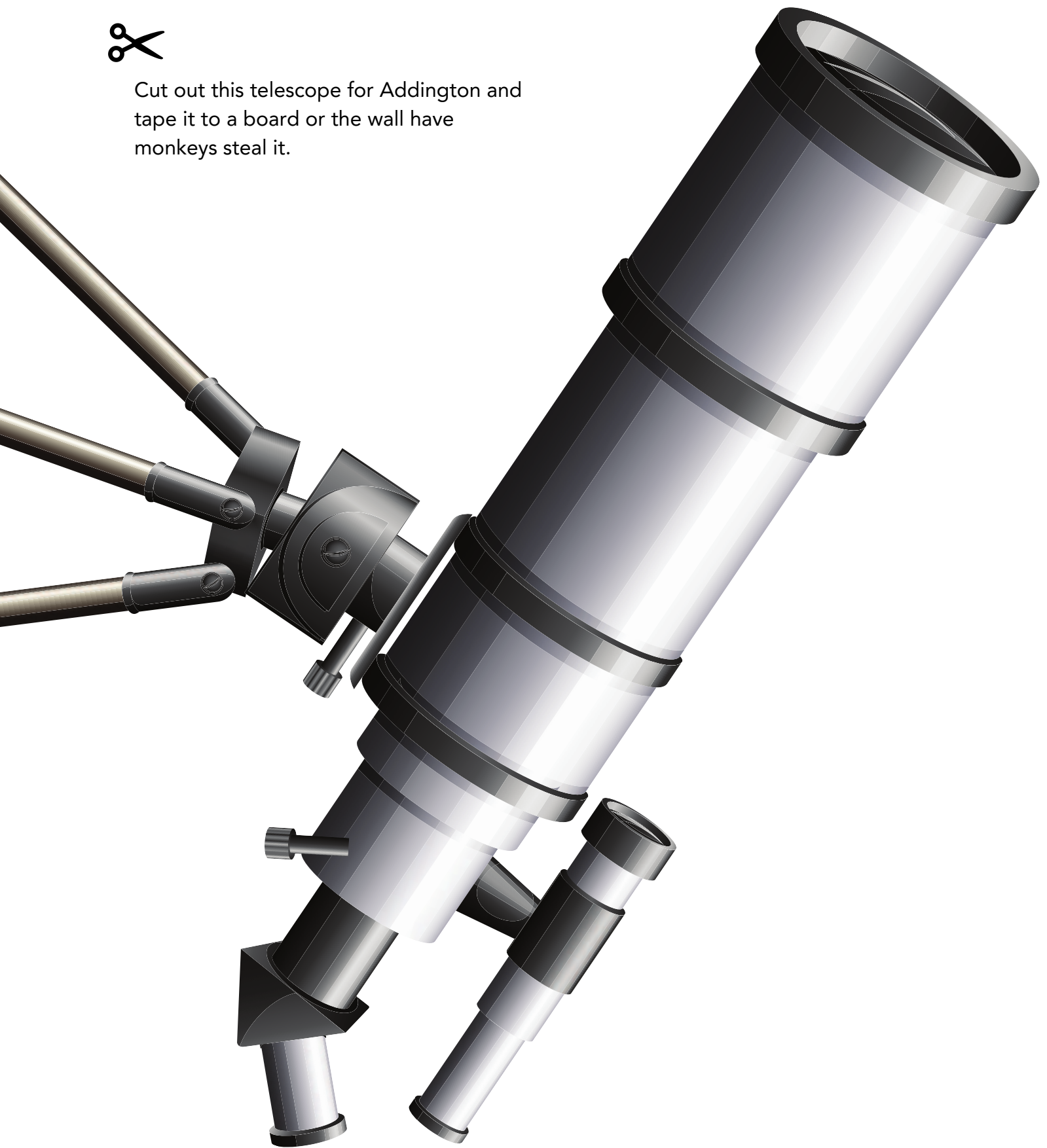
**Monkey:** Hold the  
ears onto your head  
and sneakily take  
bits of equipment  
from the telescope.

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**Monkey:** Hold the  
ears onto your head  
and sneakily take  
bits of equipment  
from the telescope.



Cut out this telescope for Addington and tape it to a board or the wall have monkeys steal it.



**Addington:** Assemble the telescope and be confused  
when the monkeys steal it.



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