



Time Travel - Kids Learning Lab Episode

Time Travel #KLL

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- This episode is going to be about time travel. (1)
- Before we start this episode, I'm reminding you that if you act fast, by February 7th, you can get 25% off your Kids Learning Lab premium subscription. Even a free subscription helps! Find out more details on our website, kidslearninglab.com, or on our Patreon website, patreon.com/kidslearninglab. (2)
- WARNING: The rocket scene in this episode is not real. Enjoy the episode. (3)
- [Kids Learning Lab Intro]
- Miheer, I don't know what to do for this episode. Plus, today it was supposed to be released. The last one was Marine Life, so maybe I could do something like that? (4)
- [M] I wish we could just time travel back 1 week ago so we could think of a topic and then release it. (1)
- What if we actually try time traveling? (5)
- [M] What do you mean? (2)
- Well, what if we went on a spaceship and traveled super fast? It could be possible for us to actually time travel to the future! Here's how it works: (6)
- If you are moving faster than someone else, you are actually experiencing the future faster than them! (7)
- This is due to Albert Einstein's special theory of relativity, which states that if you are moving faster, time appears to move faster for you. (8) People have even tested this out by placing precise atomic clocks on airplanes and saw that the clocks on the airplanes were a very small amount behind the clocks on the ground. (8.5)
- [M] Are you saying, we could time travel into the future? (3)
- Hmm... (9)
- [DREAM NOISE X3]
- [fade in] Yes! In fact, I believe we can do that! I have a friend at NASA who can let us go onboard a rocket that they move super fast! We can see the difference by carrying clocks on the rocket! (10)
- [M] OK! (4)
- [Dream noise]
- 3 WEEKS LATER
- [Dream noise]

- Here we are, Miheer, ready to go onboard the NASA Mission Bobby. We will fly the fastest ever, at 437,000 miles per hour, for one year. (11)
- [M] OK! (5)
- Let's climb into the rocket now! (11.5)
- [Car door open, Walking noise, Car door close]
- [M] Are you ready for liftoff? (6)
- Yeah! (12)
- [Ten nine eight seven six five four three two one: voice and liftoff noise]
- [M] Yay! We're in space! (7)
- [faded in space background noise]
- Hooray! Now, we just have to wait 1 year so that the difference in time is noticeable. (13)
- [Dream noise]
- MANY MONTHS LATER
- [Dream noise]
- [ROCKET LANDING]
- We're back on land! Well, really, we're in the middle of the ocean, since NASA drops capsules in the ocean, and we have to wait for a ship to pick us up. (14)
- [Car driving away noise]
- [M] Yay! We've been picked up! And look, our clocks are 6 seconds behind theirs! We time traveled! That means we're 6 seconds younger than we are supposed to be! (8)
- [fade out]
- [DREAM NOISE X3]
- [fade in] I guess yes, we could time travel to the future, but for now, that's almost impossible. (15)
- Well, that's time traveling to the future. But traveling to the past might be impossible, for now. (16)
- [M] Why? (9)
- Well, you see, we don't have any theories or ideas that will explain how to time travel to the past. Also, time traveling to the past has many problems. (17)
- First, there's the Grandfather Paradox. This says that, "What would happen if you went back in time and stopped your parents from having you?" This means that you were never born, which means you never stopped them from having you, which meant you did exist, which means you did go back in time to stop them from having you, which meant you never existed, which meant you never stopped them, which meant they did have you, and so on. This is almost like the Schrödinger's Cat Paradox, in which you are kind of alive and dead. (18)
- Also, what would happen if you went back in time and stopped yourself from going back in time? Then, you would be stuck in a loop of not time traveling and time traveling. It is a replication of the Grandfather Paradox. (19)

- [M] But what if we could time travel into the past? (9.5)
- We would still have problems. Could any person go back in time? Would we need to make laws to prevent people from going back in time? Could people go back in time to help themselves? (19.5)
- This is why going back in time presents many challenges. (20)
- [M] Let's play a game now! (10)
- Sure! (21)
- [Dream noise]
- You've boarded your time machine, and went to the year 2100. But you've been locked in a room by robots! They've given you a riddle:
- I have keys but open no locks. I have space but no room. You can enter but never go outside. What am I?
- I'll say it again:
- I have keys but open no locks. I have space but no room. You can enter but never go outside. What am I?
- [TICK TOCK TICK TOCK TICK DING noise]
- Option 1: You got it wrong. You're trapped forever in the year 2100.
- Option 2: You got it right. You entered the answer, "keyboard", on the robot's screen. You got it right, and you were sent back to 2025.
- Thanks for listening! Hope you had fun! Before we go, here's an idea for you:
- Write down (or type) a paragraph about what you would do if you could go back in time. You can even draw a picture! With an adult's help, email it to hello@kidslearninglab.com. We might even post it on the front page of the website and give you a shout-out!