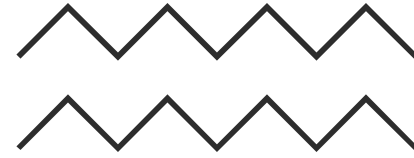STEAM x 英語
低学年向け レッスン内容

static electricity

For
4-5Days

Day1

ねらい / Goals

・Experience the power of static electricity.
静電気の力を体験する。

・Use vocabulary such as "rub," "stick," "fall," and "count" in English.
「こする」「くっつく」「落ちる」「数える」などの単語を英語で使う。

・Rub a plastic bag themselves and count in English how many seconds it stays stuck.
自分でビニール袋をこすり、何秒間くっついたままか英語で数える。

Warm up

1	First, you tell the children, "Today, let's all try putting a plastic bag over our heads and see how many seconds we can keep it on!" （Kyou wa minna de bini-ru bukuro wo atama ni nosete, nanbyoukan ki-pu dekiruka ni cyousen shiyou!） 「今日は、みんなでビニール袋を頭に乗せて、何秒間キープできるかに挑戦しよう！」と子どもたちに伝えます
2	Here's how it's done.
	(1) Rub the plastic bag against your bangs or the hair on the top of your head several dozen times. ビニール袋を前髪や頭頂部の髪に数十回こすりつける。
	(2) Lift the plastic bag slightly off your head to show how the hair stands up. 袋を頭から少し離し、髪が立つ様子を子どもたちに見せる。
	(3) Then, release both hands from the plastic bag and count how many seconds it stays on your head without falling off the top. 両手を袋から離し、頭頂部から落ちずに何秒間留まるかを数える。
3	Ask kids "Do you know what it is?" and tell kids that "It's the seidenki in Japanese. and in English, let's say "Static electricity!" 子どもたちに「これは何ですか？」と尋ねた後、「これは日本語で静電気、そして英語では"Static electricity"と言いますよ、と伝えます。

Main Content

1	The children will follow your example, rubbing a plastic bag over their heads. 子どもたちはあなたの真似をして、ビニール袋を頭の上でこすり、その後、ゆっくりと袋を持ち上げ髪の毛が上がる様子を互いに確認しあいます。	"Take a plastic bag and go!" "Rub it on your hair. Rub, rub, rub!" "Look! Your hair goes up!"
2	Stick the bag to each head and count how many second keeping it stuck there 次に、子どもたちはビニール袋を頭にそっと乗せて、何秒間頭に乗せていられるかを数えます。	"No hands! Just static!" " Let's count together: "One, two, three, four…"
3	Draw a table on the whiteboard and investigate with the children how many seconds it stayed after being rubbed each number of times(5, 10, 15times) ホワイトボードに表を描きます。 子どもたちは５，10、15回ビニール袋を頭頂部にこすりつけるとき、それぞれ何秒間キープできたかを計測します。	
4	Finally, ask "Which one is the best?" to elicit the answer "15 times" from the children. Then, review that static electricity becomes stronger the more kids rub it. こする回数が多いと静電気の力が増すことを確認します。	"Which one is the best?" ・・・"Yes! 15 times!" "So, what did we learn?" "More rubbing = stronger static electricity!" Let's say together: "More rubs, more power!" "Static electricity is strong!"

Table (item 3):

	Akira	Saki	Rose
5times	3sec	1sec	2sec
10times	5sec	6sec	5sec