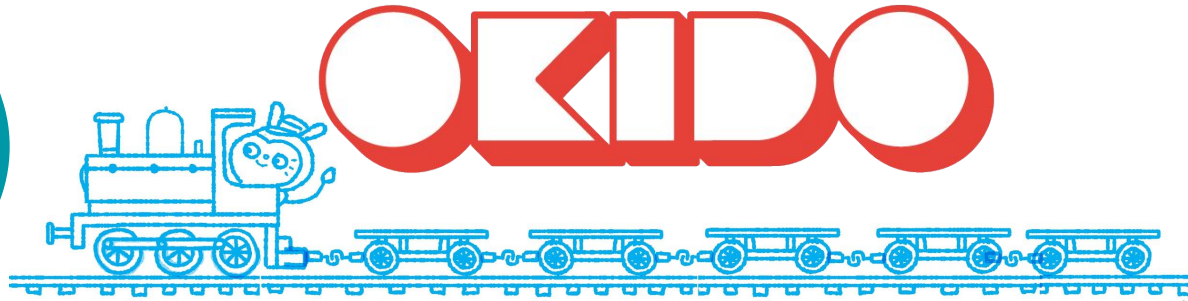


45 min
Science
Workshop



**Ages
3-8**

Learn-Through-Play Workshop

This OKIDO downloadable workshop is designed for families and can be easily delivered in the home by YOU. It is designed in collaboration with British Science Association and follows learning to facilitate Early Years and KS1 development using easy-to-find objects from around the home.

This 45 minute learn-through-play workshop includes:

- Watch an episode of Messy goes to OKIDO together
- Discuss the science with easy-to-follow pointers around the subject
- Complete a make-and-do science activity
- Reinforce the learning with a fun, follow-up worksheet

Theme - **How the world works**
Subject - **Transport**



For lots more workshop activities subscribe to OKIDO Magazine at www.okido.com

Watch and learn together

Together with your child, watch this 10-minute episode of Messy goes to OKIDO - 'Messy Races'. [Link to Messy Races episode.](#)

Messy is playing with his toy vehicles and wonders what makes them all move in real life? What is it that makes vehicles move? So off he goes to OKIDO to see if he can get some help. In the episode we learn about different methods of **transport** and different types of fuel.

The gang all take part in the annual All OKIDO Race to Windy Hill. Messy, Felix and Zoe race in Okidoodle. Zim in his Sail Car, Zam on her Zamoped, Lolly in his ice cream van, Mayor Oki in his aeroplane and Jeffrey using a jet pack. All the vehicles use different types of **fuel** to power them so make sure to pay attention to this!

Talk about the science

Right after watching, ask your child some questions about what they've seen:

- Who won the race?
- What fuels the Okidoodle?
- What fuels Lolly's ice cream van?

Now talk to your child about fuel and transport concepts:

- What fuels us?
- Which do you think is the most environmentally-friendly mode of transport? It's fun to talk about walking and cycling which only use 'us' to power them both and keeps us fit at the same time.

If your child asks a question that you don't know the answer to - just investigate together to find out!



Don't worry - all the information you need to know is explained in the episode :)

New words: Fuel, transport



Now make a junk vehicle

You will need:

- Small cardboard box or food container
- Glue and coloured paper or magazine scraps to decorate
- At least four milk bottle lids per vehicle
- Kebab sticks / skewers
- Paper straws
- Paper tape
- Nail, hammer
- Piece of wood to hammer onto

There are lots of fine motor skills needed for this activity so smaller children will need help at times. Older children can use the hammer and nail to make the holes in the 'wheels' - this is a great **life skill** to learn.

- Close the box with tape and decorate - this is the body of your vehicle.
- Make a hole in the centre of each bottle lid.
- Snap two kebab sticks so they are about two inches wider than the box.
- Cut the straws about two inches shorter than the sticks and feed the sticks inside the straws.
- Now squeeze the sticks onto the bottle lids.
- Tape each straw securely onto the bottom of the vehicle body.

Experimenting and data collecting

You can experiment with:

- Try different sized vehicle bodies by using different boxes.
- You could try to make a six or even eight-wheeler vehicle if you have a large enough box.
- You can also use bottle lids from water or fizzy pop bottles if you already have these (but let's try not to buy these any more) but be sure to always use the same sizes 'wheels' on both sides of a kebab stick - otherwise your vehicle will not run in a straight line.

Make a race! Put a strip of tape on the floor to mark a starting line and race as many vehicles as you have to hand.

Ask your child to design their own fantasy vehicle by giving them a design sheet. Talk about how their vehicle will run, what will power it and what special features will it have?

Keep these vehicles stashed away for a rainy day. Your child will be delighted to revisit racing them some time after initially making them.

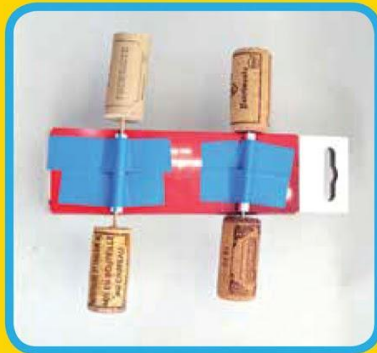
Make a vehicle



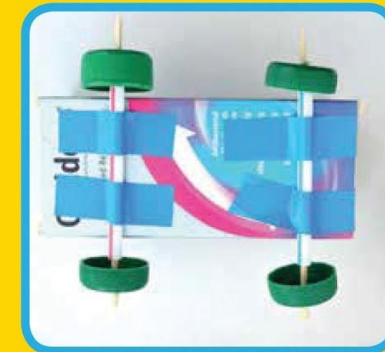
Insert a skewer into each straw like this.



Make a hole in the centre of each bottle cap with a blunt nail and a hammer. Ask an adult to help you.



Stick the corks onto the sharp skewer ends and fix onto the carton with sticky tape. Do the same with the bottle caps on your second carton or box. Turn them over and you have two moving machines!



You can decorate your machines with paper and colours.



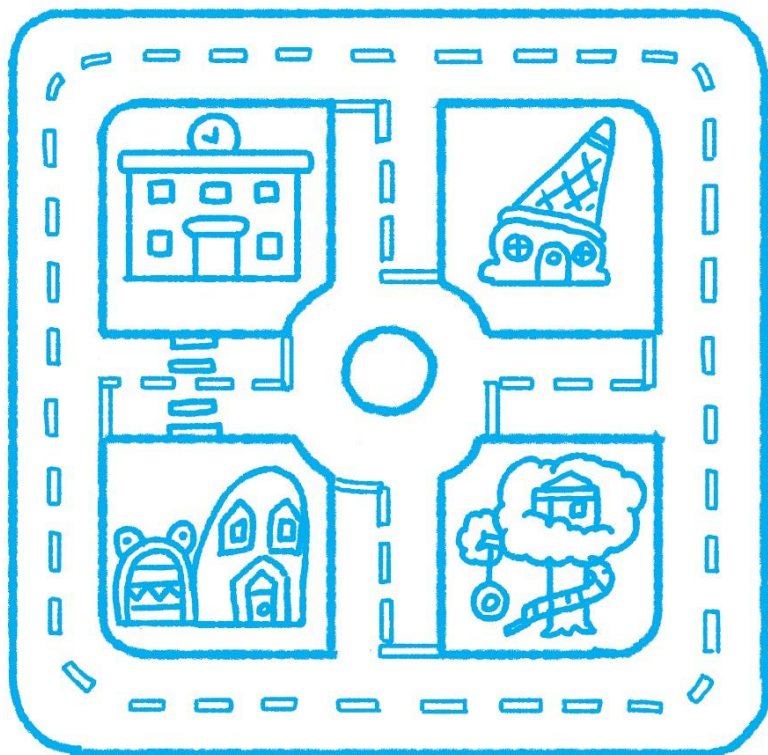
Share your images with us at [#okidoworkshop](https://twitter.com/okidoworkshop)



My vehicle look like this

What's special about my vehicle?

Draw some transport on these Okido roads



Lets fly away! Draw some planes, helicopters, hot air balloons and airships in the sky!



Choo-choo!

The Messy Express is steaming down the line! Draw the cargo and carriages.

