

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 the 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 - **Technology and engineering**
Subject - **Television**



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Watch and learn together

Together with your child, watch this 10-minute episode of Messy goes to OKIDO - 'Alien TV'.

[Link to Alien TV episode](#)

This week Messy Monster wants to know how cartoons get into the television. So off he goes to OKIDO to see if he can get some help.

Aliens on OKIDO TV? Skateboarders in the satellite?! Everything's upside down! It's up to Messy and his friends to fix it!

In this episode, we learn how a TV works. We explain that the images we see on TV are pictures that are sent to the machine via **signals** and that these signals are invisible and travel through the air from a **satellite** dish.

Talk about the science

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

- What does Messy love to watch?
- Where are the televisions and phones in OKIDO are picking up programmes from?

Now talk to your child about what they've learned about television:

- Why don't you see signals? Where do the signals get sent up to?
- What do the signals and satellites affect?

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: Signal, satellite

Now make a television set

You will need:

- Large cardboard box
- Scissors, cardboard cutter or craft knife
- Glue and paper tape
- Bottle tops, tin foil, lolly sticks and general bits and bobs from the recycling to make the controls
- Pens

Have you heard of a cardboard cutter? These are safe, plastic, serrated cutters that allow you to cut into the middle of a piece of cardboard - take a look on the internet and invest if you can. Cutting a shape from the middle of a piece of card is a great **life skill** to develop.

- Cut a screen shaped rectangle on one side of the box and stick on some control buttons.
- Next cut a piece of cardboard for the remote control and add all the control buttons to this (if you don't have enough tops and bits of junk, just draw them).
- Next make a set of props for the shows - eg:
 - Different weather symbols for a weather show
 - Cartoon characters for a cartoon show.

Now take it in turns to make TV shows!

Experimenting and data collecting

- There are lots of different shows you can make - if your child has a particular interest, encourage them to make a show about that - how about:
 - Dinosaurs
 - Football teams
 - Nature
 - Space
- Make different 'backdrops' for each show. These are what you see in the background that explain the content of the show or help the story have a context.

Older children can be encouraged to create a script for their show and try to follow it. Fact shows can have more than one episode and imaginative shows such as cartoons can have more than one story.

Store this away for the next rainy day - your child will add to each show every time they play with it.

Always be careful when cutting cardboard. Grown ups should manage all the tricky stuff but it's great to encourage children to cut the simple pieces. Never leave your child unattended with a sharp object and store safely after use.

Make your own TV programme

Cut a large hole on one side of the box. Draw or stick on some control buttons. Use cardboard to make a microphone, props and a remote control.



What programmes will you make?



A nature programme



An advert



A weather forecast



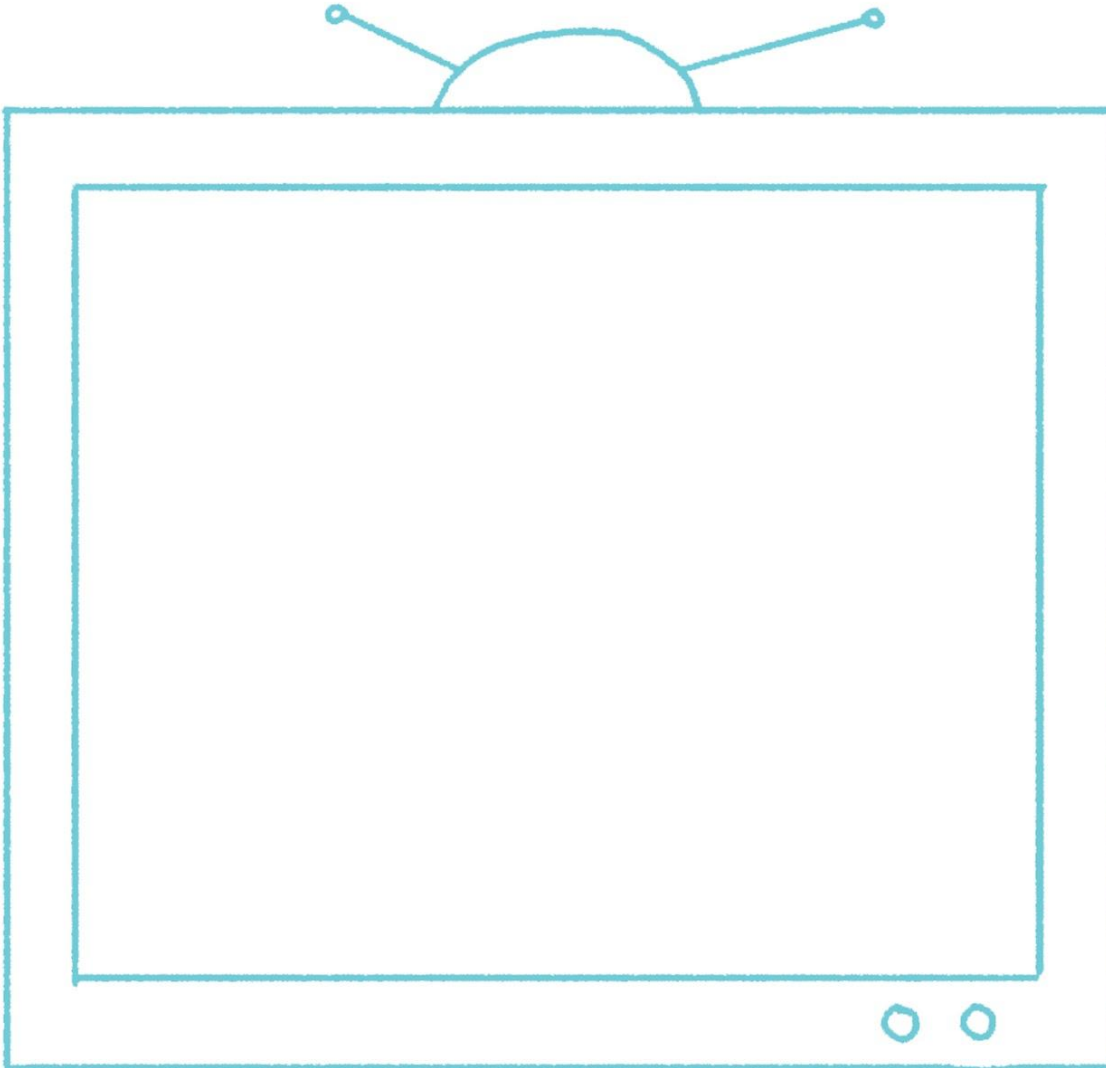
The news



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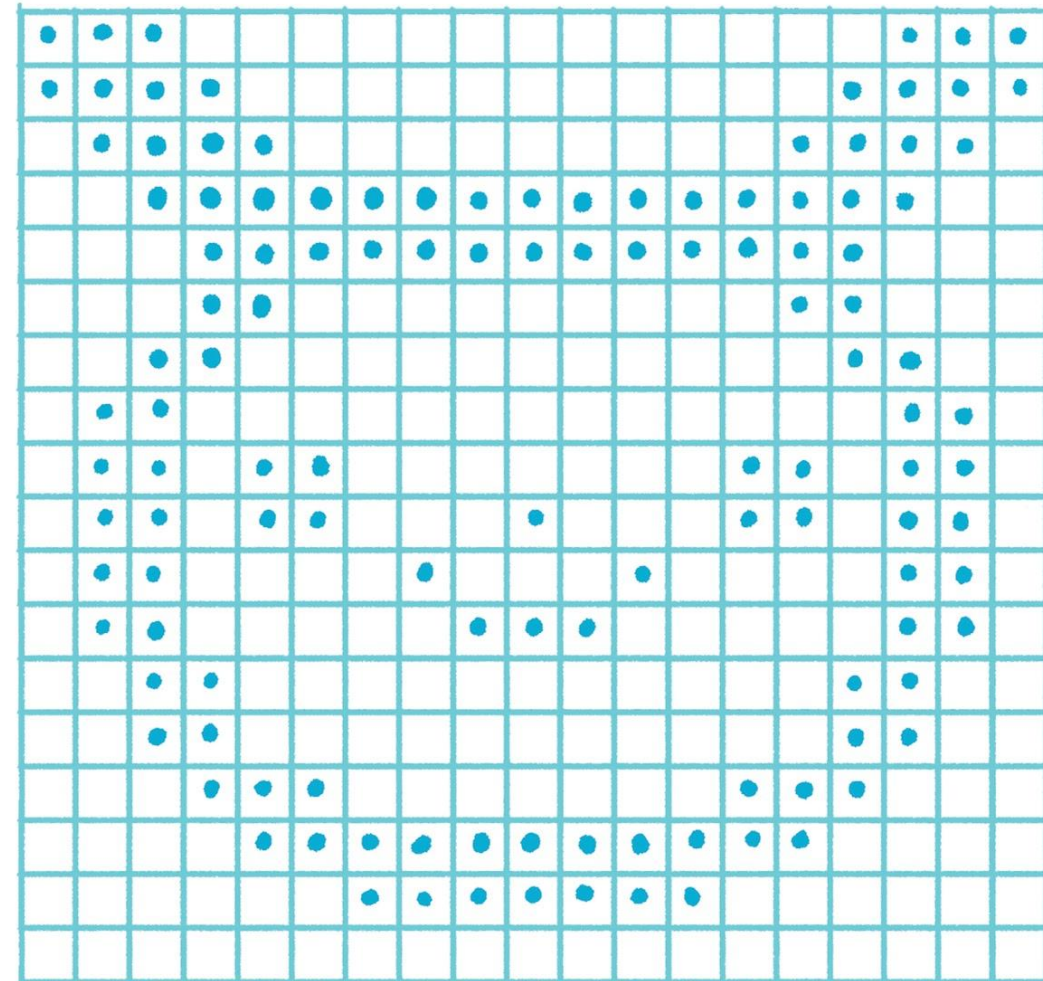
Let's Okidoodle!

Draw your favourite TV SHOW!



Colour pixels

Colour in the dotted squares to see the image appear.



Who is watching TV?

Spot all the screens in OKIDO city!



TV signals

Link the satellites to the right TV!

