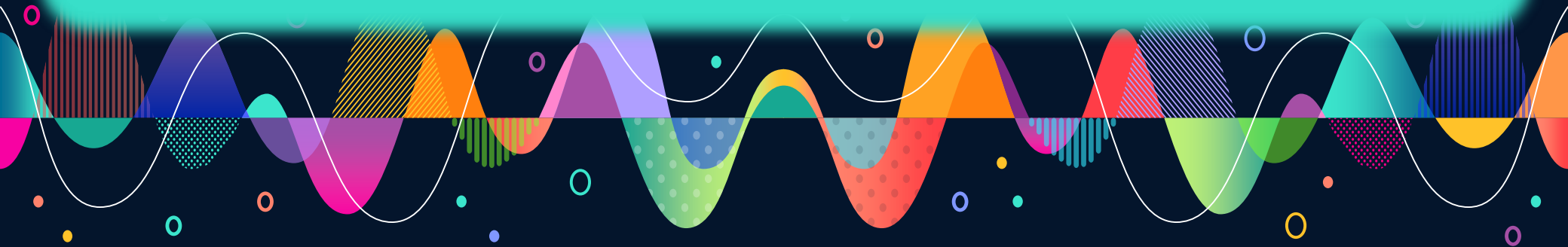


Science Week Sound

MONDAY 22ND FEBRUARY - FOCUS FOR THE DAY:

* Recognising that vibrations from sounds travel through a medium to the ear;

* Recognising that sounds get fainter as the distance from the sound source increases.



HOW DO WE HEAR SOUND?

Explorify

I WONDER...WHAT COULD THESE BE?

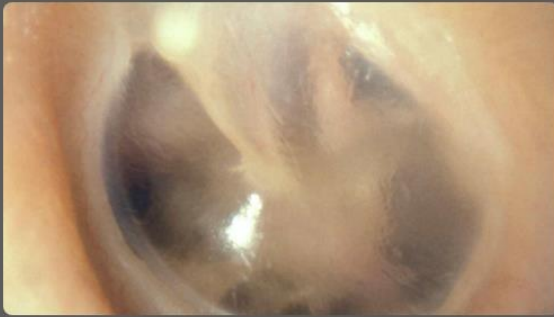
ZOOM IN, ZOOM OUT

Hidden depths

Zoom in



Zoom out



ZOOM IN, ZOOM OUT

Pink and knobbly

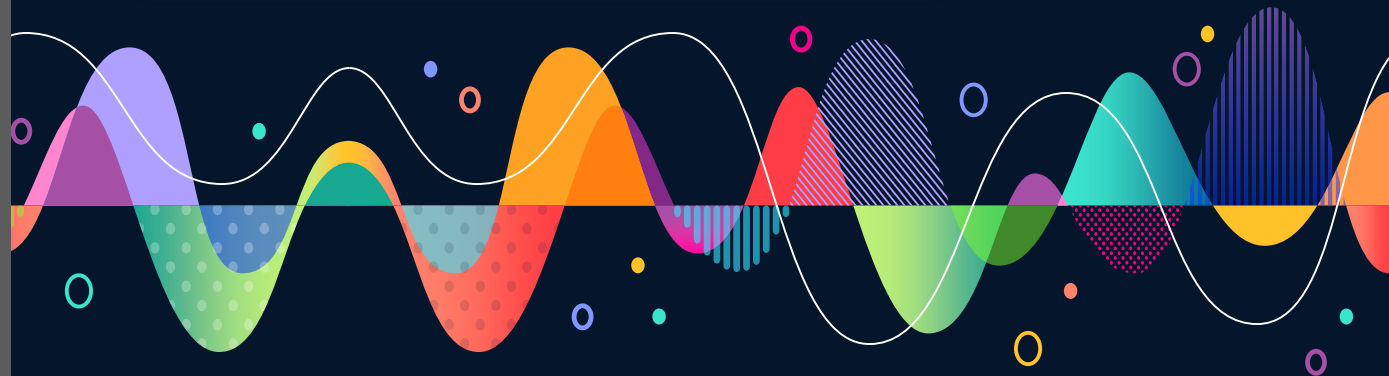
Zoom in



Zoom out



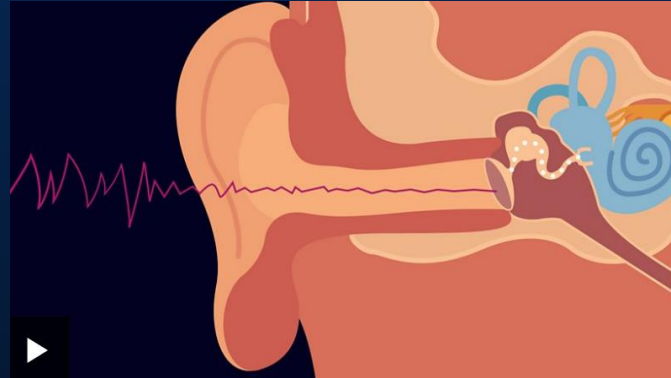
CLICK ON THE IMAGES TO TAKE YOU TO
THE 'ZOOM IN, ZOOM OUT' ACTIVITY.
THERE ARE SOME QUESTIONS TO ASK AS
YOU GO THROUGH AND AN EXPLANATION
FOR EACH IMAGE.



HOW DO WE HEAR SOUND?

BBC
Bitesize

FIND OUT MORE BY CLICKING ON THESE LINKS:



Explore how sound vibrations change for different pitches.



What is volume? video



WHAT IF WE NEED TO **IMPROVE** OUR HEARING?

LOTS OF ANIMALS RELY ON THEIR HEARING FOR SURVIVAL.

FIRST, FIND OUT ABOUT ANIMAL EARS AND HEARING BY WATCHING THIS VIDEO.

NEXT, LOOK AT THESE IMAGES OF DIFFERENT ANIMALS. WHAT DO YOU NOTICE ABOUT THEIR EARS?



WHAT IF WE NEED TO **IMPROVE** OUR HEARING?

CHOOSE WHICH ACTIVITY YOU WOULD LIKE TO DO TO INVESTIGATE IMPROVING YOUR OWN HEARING:

ACTIVITY 1 - MAKE YOU OWN EAR TRUMPETS!

You will need:

Heavy construction paper, or thick paper/card (even a cereal box might work!)

Scissors

Tape

A radio, CD player or other musical device with speakers, or with a head set. (Note: Ear buds do not work well for this activity).

Optional: Two paper plates

Optional: Markers or other decorative materials

Use what you have found out about animal ears and how they have adapted to improve their hearing. What could you make out of the materials to improve YOUR hearing. How are you going to test it out to see if they work?

Take a photo of what you make and record what you found out. This might be through a short video clip to explain your findings, or notes you have made. (If you get really stuck, there are instructions on this [link](#) - but have try by yourself first!)

OR...

ACTIVITY 2- MAKE YOU OWN EAR GONGS!

You will need:

A metal coat hanger, or metal spoon

String, or wool, or ribbon

Scissors

Instructions and science explanation can all be found on this [link](#).

WHAT IF WE NEED TO **IMPROVE** OUR HEARING?

WHAT ABOUT HEARING OVER A LONGER DISTANCE?...

ACTIVITY – MAKE THAT CLASSIC TOY : A STRING TELEPHONE!

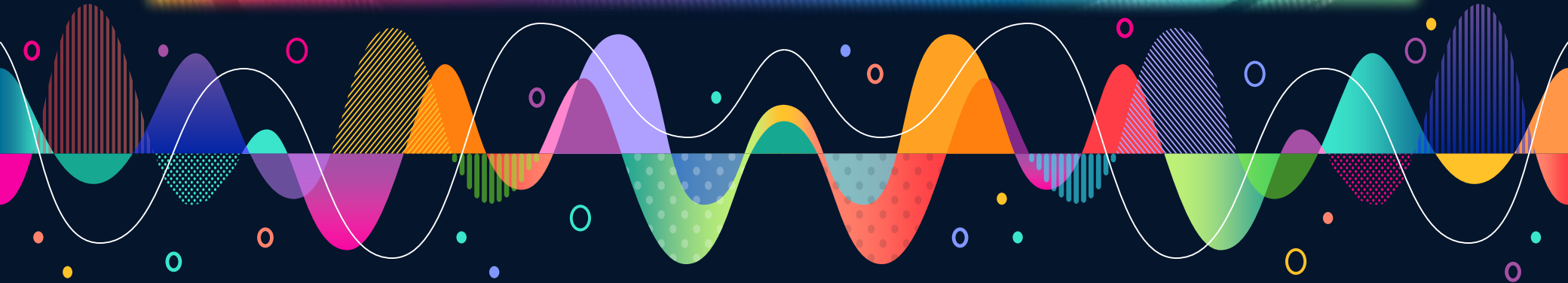
*You will need:
2 plastic cups, or yogurt pots
String/wool
Scissors.*

Instructions and science explanation can all be found by clicking on the image below:



THE KID SHOULD
SEE THIS

Smart videos for curious minds of all ages



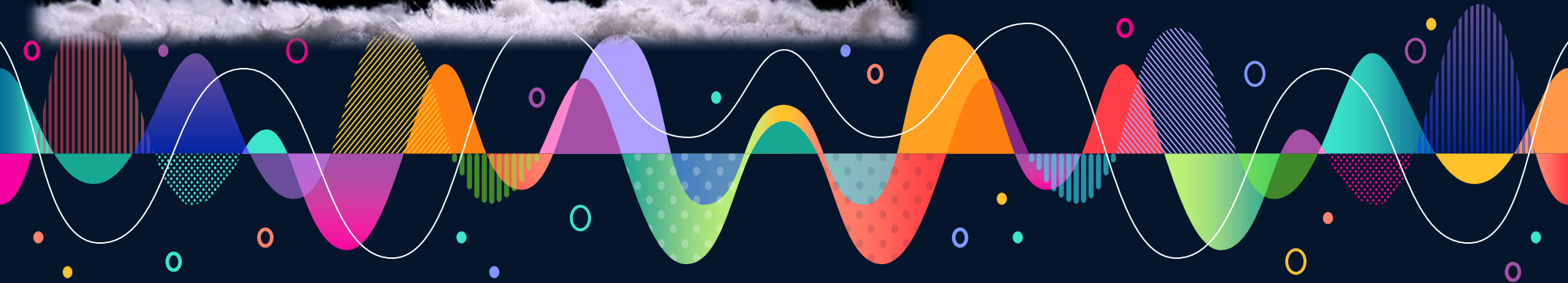
WHAT IF...

Explorify

**SOME SPECIES RELY ON BEING REALLY QUIET.
FIND OUT ABOUT THE OWL COMPARED WITH OTHER BIRDS...**



**WATCH THE VIDEO.
THERE ARE SOME PROMPT
QUESTION SUGGESTIONS ON
THE LINK, TOO.**



WHAT IF WE NEED TO **PROTECT** OUR EARS?

NOW, THINK ABOUT THE OPPOSITE.
IF WE ARE SURROUNDED BY LOUD NOISES, NEED TO CONCENTRATE, OR WANT TO BLOCK OUT SOUNDS, WE NEED TO PROTECT OUR EARS IN SOME WAY.

IN THIS NEXT ACTIVITY, YOU ARE GOING TO INVESTIGATE THE BEST WAY TO PROTECT YOUR EARS.



ACTIVITY - MAKE YOU OWN EAR PROTECTORS!

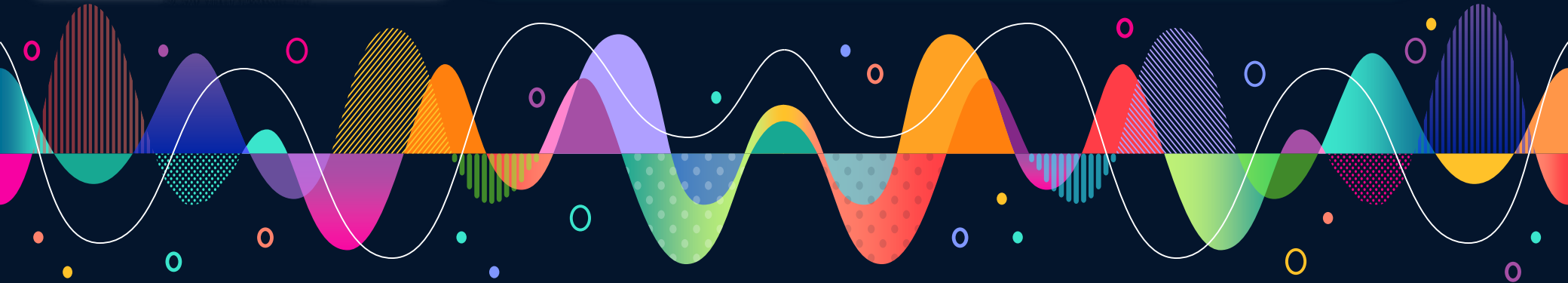
You will need:

A mix of construction and muffling materials (card, cling film, tape, glue, elastic bands, cotton wool, foam, fabric).

All of the instructions can be found on this [link](#).

There is also some information about the science behind this activity on the same link.

Explorify

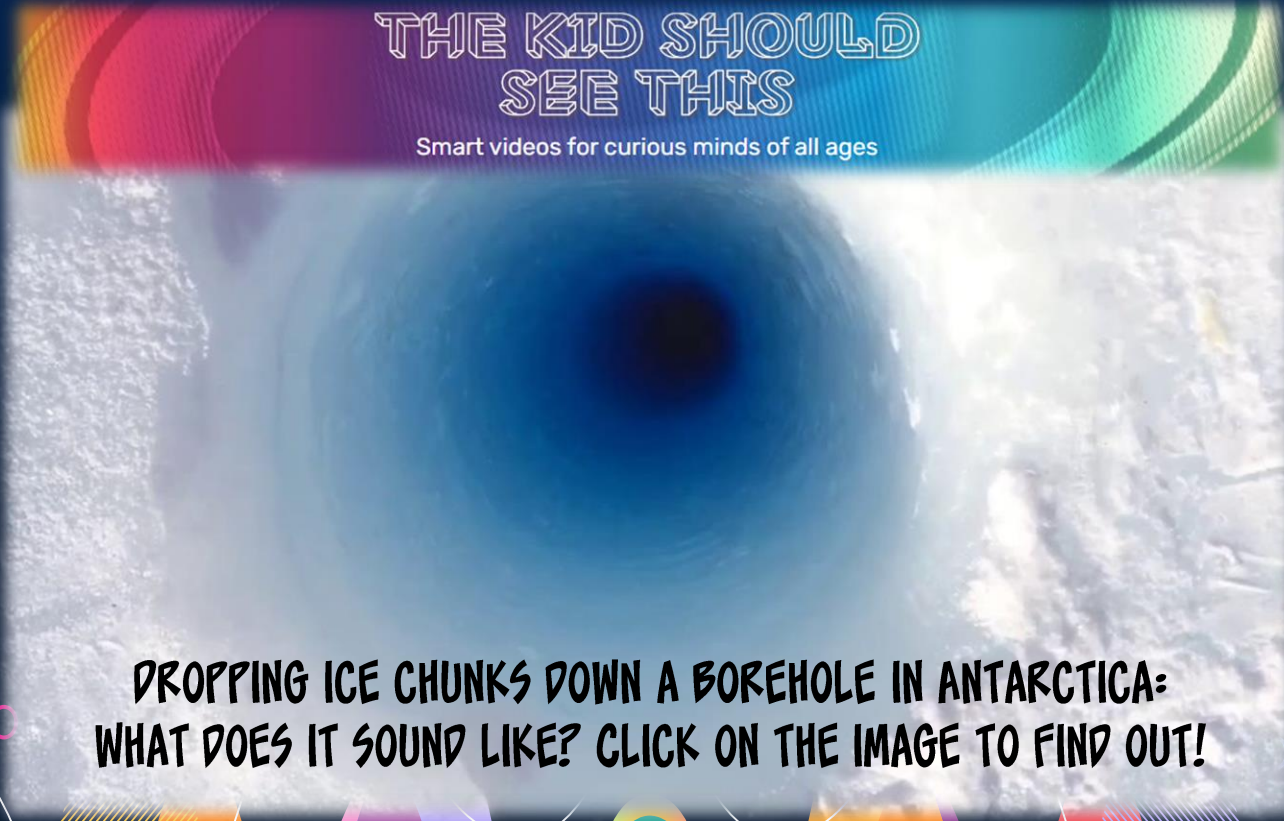


Science Week Sound

JUST FOR FUN!

THE KID SHOULD
SEE THIS

Smart videos for curious minds of all ages



**DROPPING ICE CHUNKS DOWN A BOREHOLE IN ANTARCTICA:
WHAT DOES IT SOUND LIKE? CLICK ON THE IMAGE TO FIND OUT!**