

SPACE SOUND

Sound is made up of **vibrations**. It travels as a wave through air, solid objects or water, until it vibrates against our eardrums, and that's how we hear!

But if you're drifting about in space, you're in a **vacuum**. It's like how you have to wear a space suit because the air isn't breathable; similarly, sound waves don't travel through outer space because there's nothing for the vibrations to travel through.

So - how could we communicate in space?

LIP READING

We're going to warm up today by playing a lip reading game. Look in the mirror and say each pair of phrases. Now just mouth them.

I love you / elephant shoes

You have talent / you have salad

Please show me / Trees are stupid

I'm Hungry / I'm Angry

See how your mouth looks the same for each option?

MIME

Really, when you're in space, you have radios in your space suits. But talking over a crackly radio can still get confusing! Let's try acting out what you're trying to communicate.

First of all, let's try miming (That means simplified acting out without any sound) How would you mime:

"Hello!"

"I can't get out!"

"I'm tired"

"It's my birthday"

Finally, let's try emoting. This means show the emotion of what you're trying to say with your face - e.g. Smile to be friendly. Also try emoting the feelings of being:

Trapped

Tired

Excited