



# SUPERSTAR



# A Hole in my Bucket

## Organiser's Card



## About the activity

This activity is designed to get children thinking about materials, liquids and testing methods.

Just like the song 'There's A Hole In My Bucket', the children are asked to find a way to plug the hole in a container to stop water pouring out.

Through this activity you will support your group to:

- Carry out their own tests to compare different sticky materials
- Observe, measure and record results carefully
- Respond creatively, writing new lyrics for a well-known song

## Kit list

- A selection of different materials for testing, eg: sticky tape, fabric, Blu-Tack, cotton wool, tissues, straws etc.
- Plastic containers with holes cut into the bottom
- Ruler
- Timers
- Washing up bowls or containers
- Measuring jugs
- Scissors
- Plastic aprons
- Paper towels







# SUPERSTAR

## A Hole in my Bucket Activity Card

**Do you know the tune to this well-known song?**  
If not, see if you can find out about it.

There's a hole in my bucket, dear Liza, dear Liza.  
There's a hole in my bucket, dear Liza, a hole.  
Then mend it dear Henry, dear Henry, dear Henry  
Then mend it dear Henry, dear Henry mend it. With  
what shall I mend it, dear Liza?  
With a straw, dear Henry.  
The straw is too long...  
Then cut it...  
With what shall I cut it?  
With a knife...  
The knife is too blunt...  
Then sharpen it...

With what shall I sharpen it?  
With a stone...  
The stone is too dry...  
Then wet it...  
With what shall I wet it?  
With some water...  
With what shall I fetch it?  
With a bucket...  
BUT THERE'S A  
HOLE IN MY BUCKET!



### Your challenge

Liza and Henry need your help. Can you find something that will stop Henry's bucket from leaking?  
Liza suggests using straw to fix the hole. Do you think that would work well?  
What about sticky materials? Would any of them be better for mending the hole in Henry's bucket?

Do some tests to find out the best method of fixing a leak!

### Discuss

- Which materials will you test?
- How many different materials will you compare?
- Does it matter how you use your material to fill the hole?
- What will you need to observe or measure in your tests?



# Getting started

We are going to use clean plastic drinking cups, with the same sized holes cut in the bottom of each, then try out our ideas.

**Some of your fellow investigators have some ideas!**

“I think we should try to fix the hole, then put water in and just watch what happens.”

“We could do some timing to find out how long it is before the water starts to leak out.”

“Let’s measure how much water leaks out in 2 minutes. We could put marks up the side of the ‘buckets’ to help us.”

**What do you think? Do you have another idea?**

## Test your ideas

You could use a table like this to record your findings:

Material	How much water leaked through?
Blu-Tack	
Sticky tape	
Glue	
Chewing gum	
Straw	

## Share your ideas

Were there any problems with your tests? How could you improve them?

How easy did you think it was to keep your tests fair? Why?

Which material should Liza and Henry use to fix a hole in their bucket?

On which side of the hole should they stick it?

Why have you chosen this material?

**Why not re-write the words to the song to include what you have found out?**