

# Water

## Full and empty

### What you need

- Water tray.
- Variety of containers, including plastic bottles.
- Measuring jug.
- Bucket with a hole in it.
- Watering can and selection of nozzles.

### Useful vocabulary

- Full.
- Empty.
- Half full.
- Measure.
- Volume.

### Related resources

#### Songs and rhymes

- **There's a Hole in My Bucket**
- **Jack and Jill Went Up the Hill**
- **It's Raining, It's Pouring**
- **Rain, Rain Go Away!**
- **10 Green Bottles**

### What children will learn

The children will learn the mathematical language associated with capacity – 'full', 'empty', and so on. They will play collaboratively and share their ideas and experiences. This activity will fit well with a topic like **Water** or **Weather**.

Links specifically to these Early Learning Goals: PSED8, CLL6, MD4, MD11, KU2, KU4, PD8.

## Water card 3

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### What to do

- Put the containers in the water tray and allow the children to play with them, pouring water from one to another.
- Introduce the terms 'full', 'empty' and 'half full', and encourage the children to show you what these mean with the water and containers.
- Show them the bucket with the hole in. Can they catch the water as it falls out? *Who can catch the most?*
- Collect the water caught and use a measuring jug to measure the volume each child collected. Record these on a simple bar chart.
- Make sure the bucket with the hole in always has the same amount of water to start with. *Can you catch any water with a sieve? Why not?*
- Look at the pattern the water makes as it falls out of the sieve. Compare this to the watering can – with and without nozzles.

### More to do

- Use the plastic bottles to collect rain water. Measure the amount collected every day, or at the end of the week, by pouring the water into a measuring jug. Record these results.
- Arrange 6-8 glass bottles in a line, each with a different amount of water in. Using a pencil or a beater show the children that each one makes a different noise. *Why is that?*

### Home links

- Collect rain water at home – monitor the rain fall in your garden over a month. Compare it to the results at school – who has the wettest garden!

## Water card 3