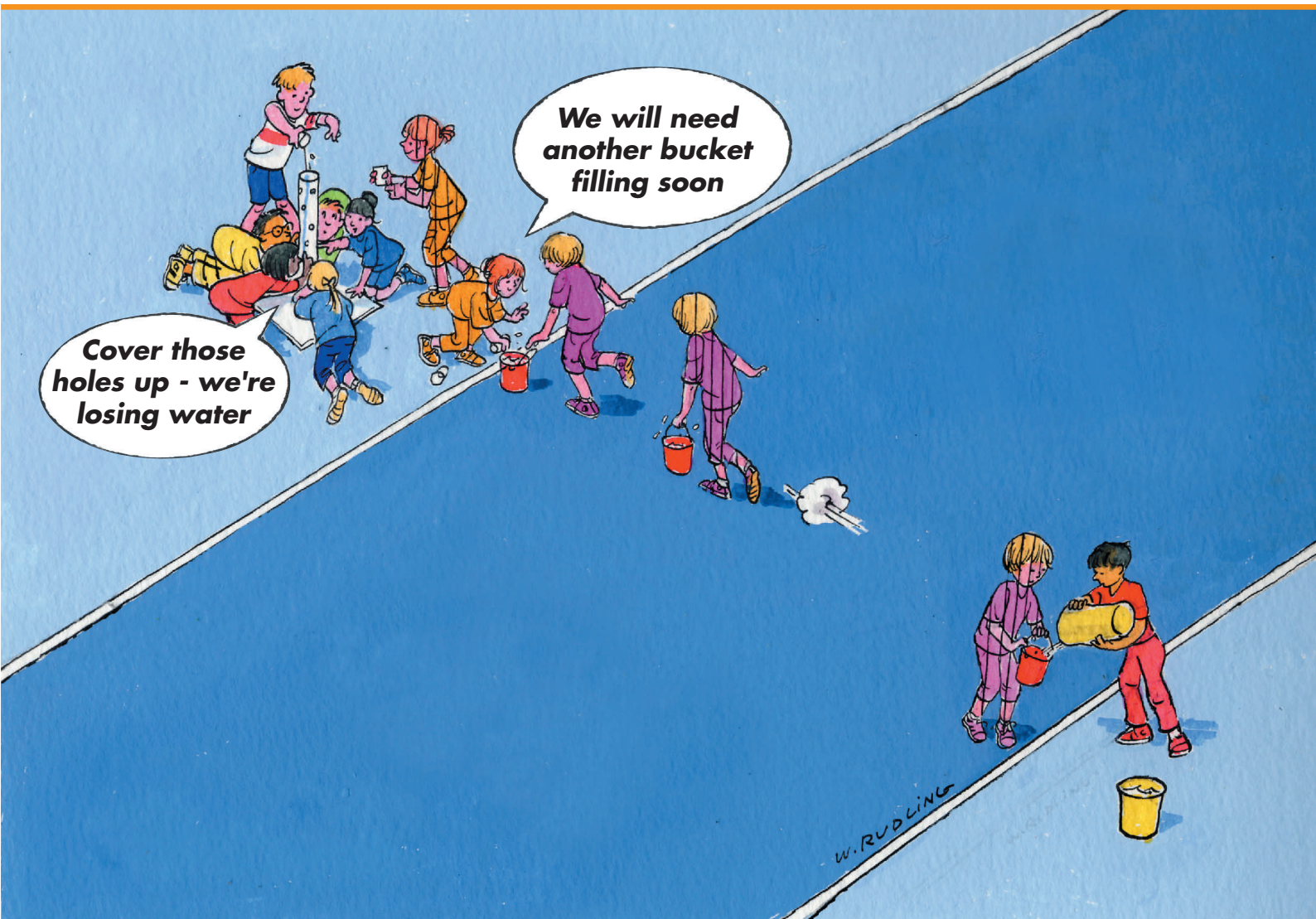




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Activity

Aim: The team must retrieve a table tennis ball from the bottom of a pipe.

- The table tennis ball is at the bottom of the pipe.
- The pipe cannot be lifted or moved.
- The working area is divided into three zones.
- Team members cannot move from one zone to another.
- The team will need to transport water from one zone to another in order to fill the pipe and raise the ball.
- Water needs to be transferred from a large container, across an intermediate zone to the zone containing the pipe.
- The various vessels used to carry the water cannot cross zones, although water can be collected at the zone boundaries.

Review & Evaluation

- Why is planning so important in this challenge?
- Did everyone work together to complete the task?
- What are the obvious consequences of not doing so?

Equipment

- Plastic drain pipe set on a stand and sealed around the bottom. The pipe has a series of holes drilled through the sides.
- The pipe can either be placed on the ground or suspended.
- Table tennis ball.
- Water supply, in containers. A large container, a bucket and small cups.
- Rope or similar to indicate the limit of the 3 zones.

Organisation

- Allow planning time.
- Encourage the group to talk to each other, and listen.
- Remind the group that everyone must work together.

Safety Points

- Take care when surfaces become wet.

Differentiation & Progression

- Set a time limit – reduce/increase.
- Have as many goes as you like in the time.
- Work with more/less people.
- Issue additional equipment to confuse the planning process.
- Increase the number of holes in the tube.

Extension:

Recover a table tennis ball from within a section of drain pipe, this time without any holes, that is located inside a restricted zone similar to the Toxic Waste exercise.

Provide additional equipment such as guttering, poles, spoon, string etc. that can be used to fill the pipe (remotely) and to retrieve the floating ball.

Skills & Knowledge

- Identify the key challenges.
- Support decisions.
- Plan the task.
- Analyse and review performance.
- Propose practical ways forward.
- Listen to others and follow instructions.
- Collaborate with others in working towards common goals.
- Take responsibility.

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