Autumn 2 Science Quest

Are you ready to challenge yourself with a Science Quest?

Earn 10 housepoints for your house by completing a challenge and sharing it in school.

Year 4



Which place in my home dries clothes the fastest?

Learning Objective: To find out how temperature and air movement affect how fast water evaporates.

You will need:

- 3 small pieces of cloth or kitchen roll (same size)
- A small bowl or cup of water
- Timer, watch or phone with stopwatch
- Pegs or tape

What to do:

1. Soak all three clothes so they are equally wet.
2. Squeeze each cloth gently so they're damp but not dripping.
3. Hang one cloth in sunlight (outside), one in shade, and one indoors.
4. Start your timer when you hang them up.
5. Check each cloth every 10 minutes and record whether it's wet, damp, or dry.

6. Keep checking until all clothes are dry.

7. Record how long each cloth took to dry.

I predict that the cloth in the _____ will dry the fastest because _____.

Results Table:

Time until dry (min)	10 min	20 min	30 min	40 min	50 min	60 min
Sunlight						
Shade						
Indoors						

Conclusion:

I found out that the cloth in the _____ dried the fastest. This happened because _____. The cloth in the _____ dried the slowest because _____.

Thinking further:

- What would happen if you used thicker or thinner cloths?
- Would a windy day change your results?
- Could you try this with different liquids (like salty water or juice)?