

Knowledge tasks

Approach: Station

Level: Year 8 & year 4

Questions/instructions	% responses	
	y ⁸	y ⁴
1. When you make soap bubbles, what is inside the bubbles?		
a. Air	✓ 84	60
b. Soap	4	20
c. Water	3	6
d. Nothing	9	14
YEAR 8 ONLY		
2. If you took all of the atoms out of a chair, what would be left?		
a. The chair would still be there, but it would weigh less.	33	
b. The chair would be exactly the same as it was before.	14	
c. There would be nothing left of the chair.	✓ 40	
d. Only a pool of liquid would be left on the floor.	13	
3. Most of the chemical energy released when petrol burns in a car engine is not used to move the car, but is changed into		
a. electricity.	40	
b. light.	2	
c. heat.	✓ 49	
d. sound.	9	
4. On warm sunny days, you usually feel cooler wearing light-coloured clothes because they		
a. reflect radiation better.	✓ 45	
b. absorb sweat quickly.	4	
c. are not as heavy as dark clothes.	12	
d. let more cool air in.	39	

	% responses	
	y ⁸	y ⁴
5. Which is an example of a chemical reaction?		
a. Ice melting.	12	
b. Sugar being ground to make icing sugar.	11	
c. Wood burning.	✓ 20	
d. Water boiling and turning to steam.	57	
YEAR 4 ONLY		
6. Which is a solid?		
a. Fog		20
b. Rain		6
c. Hail	✓	62
d. Rainbow		12
7. Which is an example of using renewable energy (energy that will not run out)?		
a. Burning a candle to make light.		14
b. Using petrol to make a car go.		17
c. Using water from a lake to generate electricity.	✓	49
d. Burning coal to heat a house.		20