

KS1 Science Quiz - Forces - Inflation of Balloons (Questions)

This quiz addresses the requirements of the National Curriculum KS1 Science for children aged 5 and 6 in years 1 and 2. Specifically this quiz is aimed at the section dealing with forces and inflation of, for example, balloons or bubbles.

Learning about forces in science you have found out about stretchy materials. These can be used to make balloons. Balloons work by being filled with air or inflated. Other things work by being inflated. Tyres and bouncy-castles are blown up with air. Have you ever blown bubbles? Bubbles are full of air, too. This quiz is about forces at play in balloons, bubbles and other inflated things.

1. Jacob is learning to swim. He has arm bands on. The arm bands are blown up. They are full of air. The arm bands help Jacob to _____ in the water.



- Run
- Walk
- Float
- Sink

2. The bouncy castle is made of big plastic tubes. What is blown into the tubes to get the bouncy castle to be the right shape?



- Air
- Water
- Lemonade
- Oil

3. These children are enjoying being in a paddling pool. Before they can use the paddling pool, it has to be _____.



- Let down
- Squashed
- Rolled up
- Blown up

4. Connor is blowing up a bicycle tyre. What is he pumping into the tyre?



- Water
- Oil
- Rubber
- Air

5. Annie is blowing soap bubbles. What is inside the bubbles?



- Air
- Plastic
- Rubber
- Nothing

6. These soap bubbles will touch the cactus. The cactus has long, sharp needles. What will happen to the bubbles?



- They will get bigger
- They will get smaller
- They will burst
- They will zoom away

7. What will happen to the balloon when the needle touches it?



- It will burst
- It will change colour
- It will move to the right
- It will get bigger

8. This is a hot-air balloon. The burner has been turned on. It is making the air inside the balloon hotter. What will the balloon do?



- Go up
- Go down
- Get smaller
- Freeze

9. What is making the balloon get bigger?



- Rubber
- Water
- Plastic
- Air

10. What is inside these balloons?



- Hot air
- Cold air
- Water
- Nothing

KS1 Science Quiz - Forces - Inflation of Balloons (Answers)

1. Jacob is learning to swim. He has arm bands on. The arm bands are blown up. They are full of air. The arm bands help Jacob to _____ in the water.



- Run
 Walk
 Float
 Sink

Are you a good swimmer?

2. The bouncy castle is made of big plastic tubes. What is blown into the tubes to get the bouncy castle to be the right shape?



- Air
 Water
 Lemonade
 Oil

When the air is blown into the bouncy castle, the bouncy castle is inflated

3. These children are enjoying being in a paddling pool. Before they can use the paddling pool, it has to be _____.



- Let down
 Squashed
 Rolled up
 Blown up

The paddling pool has to be blown up. It has to be inflated

4. Connor is blowing up a bicycle tyre. What is he pumping into the tyre?



- Water
 Oil
 Rubber
 Air

Have you ever used a bicycle pump?

5. Annie is blowing soap bubbles. What is inside the bubbles?



- Air
- Plastic
- Rubber
- Nothing

What is the biggest bubble you have ever blown?

6. These soap bubbles will touch the cactus. The cactus has long, sharp needles. What will happen to the bubbles?



- They will get bigger
- They will get smaller
- They will burst
- They will zoom away

Bubbles don't last very long

7. What will happen to the balloon when the needle touches it?



- It will burst
- It will change colour
- It will move to the right
- It will get bigger

What sound does a balloon make when it bursts?

8. This is a hot-air balloon. The burner has been turned on. It is making the air inside the balloon hotter. What will the balloon do?



- Go up
- Go down
- Get smaller
- Freeze

Have you ever seen a hot-air balloon in the sky?

9. What is making the balloon get bigger?



- Rubber
- Water
- Plastic
- Air

Are you good at blowing up balloons?

10. What is inside these balloons?



- Hot air
- Cold air
- Water
- Nothing

Hot air rises. It pushes the balloon up