

Content Check

Teacher Key

1. How does pumping air into a basketball prove that air is matter made of particles too small to be seen?

The basketball gets larger as the air is pumped into it. This demonstrates it's being filled with matter, even though you can't see it.

2. In what other ways can you demonstrate matter is made of particles too small to be seen?

Answers will vary: When a balloon is filled with air or deflated, it demonstrates matter made of particles too small to be seen is filling it or leaving it.

3. When a syringe is full of air, liquid can not be added. How does this demonstrate matter is made of particles too small to be seen?

The syringe is already full of air or matter. This is why liquid cannot be added.