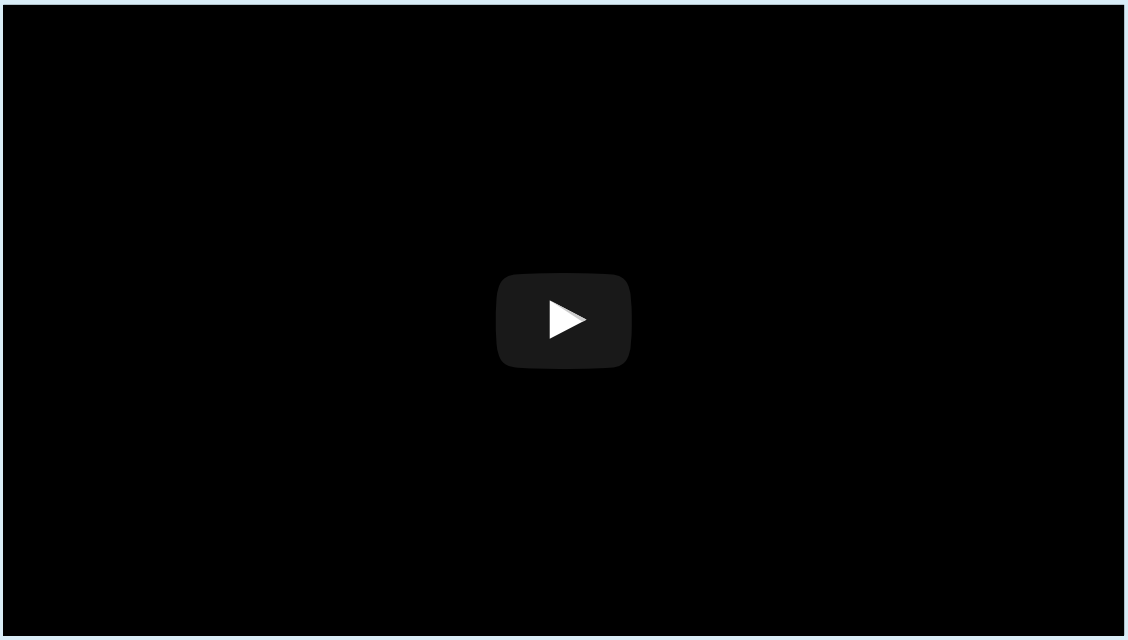
Information

We took some ice cubes from the freezer and put them in a pan. Watch the video and answer the following questions.



Question **2**

Correct

Mark 0.67 out of 1.00

When left at room temperature, ice cubes:

Select one:

- a. evaporate
- b. melt ✓ Right! At room temperature, ice cubes (solid state of water) change into liquid water (liquid state of water). This is called melting.
- c. change into a different substance

Check

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.

Question **3**

Correct

Mark 1.00 out of 1.00

When liquid water is heated and reaches a certain temperature:

Select one:

- a. it makes ice bubbles
- b. it starts boiling ✓ At 100C liquid water starts boiling. This is shown by the formation of small gas bubbles inside the pan.
- c. it becomes a different substance

Check

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

At the end of the video, the pan is empty. This means:

Select one:

- a. liquid water disappeared
- b. liquid water became vapour ✓ Right! Liquid water boiled and all gas bubbles gradually left the pan as vapor into the air. This is vaporization.
- c. liquid water became an invisible liquid

Check

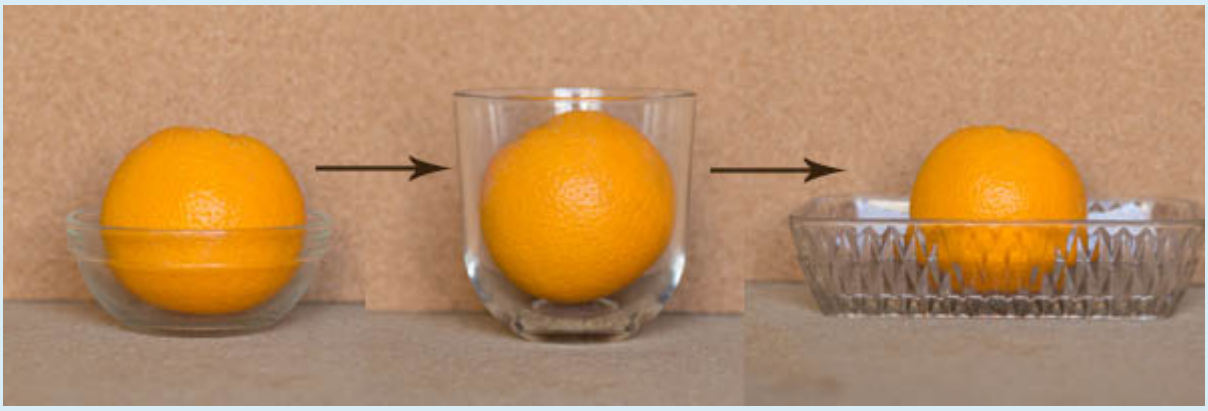
Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Information

Look at the pictures below and answer the following question.



Question **5**

Correct

Mark 1.00 out of 1.00

When the orange is transferred from one container to another:

Select one:

- a. the shape of the orange remains unchanged ✓ Right! The shape of the orange does not change when it is transferred from on container to the other. Orange, like all solids, has a definite shape.
- b. the volume of the orange decreases to fit in the smallest container
- c. the orange takes the shape of the container

Check

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Information

Look at the pictures below and answer the following question.

Question **6**

Correct

Mark 1.00 out of 1.00

When orange juice is transferred from one container to another:

Select one:

- a. the volume of the juice changes
- b. the juice fills all the space available in the container
- c. the juice takes the shape of its container ✓ Right! The juice, like all liquids, takes the shape of its container. It does not have a definite shape.

Check

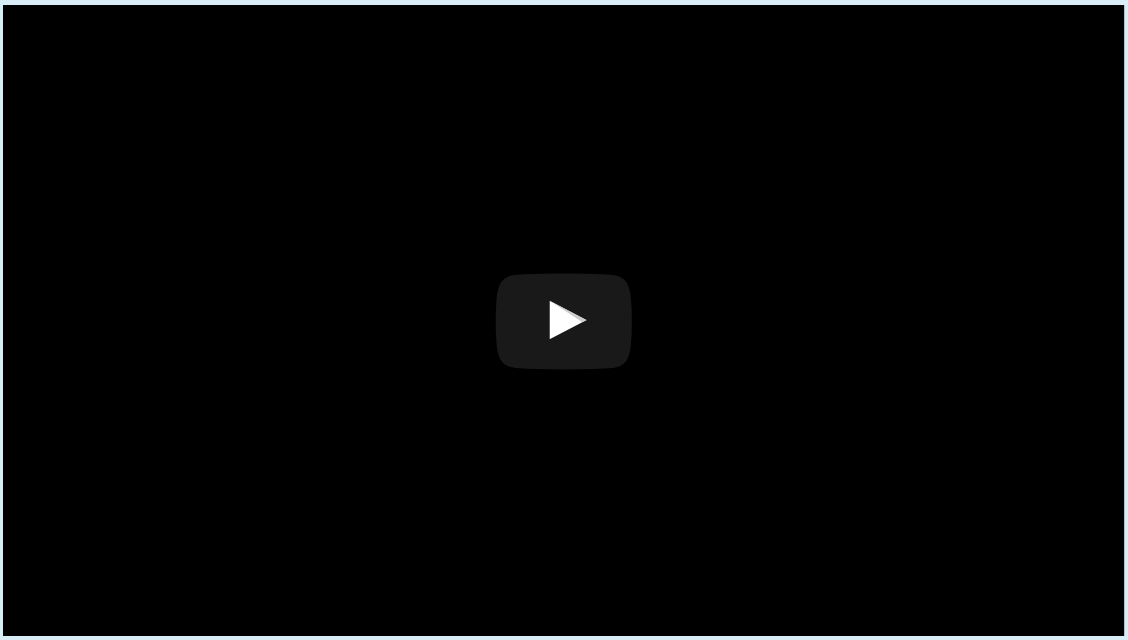
Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Information

Watch the video and answer the following questions.



Question **7**

Correct

Mark 1.00 out of 1.00

When we fill a syringe with water and push the piston inwards:

Select one:

- a. the shape of the water changes
- b. nothing happens ✓ Right! The piston does not move. In the previous section you learned that liquids have a definite volume. They are not compressible.
- c. the volume of the water decreases

Check

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Information

Watch the video and answer the following questions.

Question **8**

Correct

Mark 1.00 out of 1.00

When the piston of the syringe is pushed inwards:

Select one:

- a. the syringe swells
- b. the volume of air inside the syringe decreases ✓ Right! Air, like all gases, does not have a definite volume. It fills all the space available. In this case, the volume of air decreased to fit the reduced space. We say that air is compressible.
- c. nothing happens because the syringe is empty

Check

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.

Information

Let us explore another property of gases by watching the following video:

Question **9**

Correct

Mark 1.00 out of 1.00

This video shows that:

Select one:

- a. gases expand when heated ✓ Right! As we saw in the video, when the gas is heated its volume increases and the gas pushes the drop of coloured water upwards. This increase in the volume of gas is called gas expansion.
- b. gases expand when cooled
- c. liquids expand as much as gases

Check

Your answer is correct.

Correct

Marks for this submission: 1.00/1.00.