Vertex Academy

Year 1 Science workbook

4 worksheets · answers at the back

Contents

1. Objects and the materials they are made of
2. Light, shadows and sound
3. Living things: plants, animals and fungi
4. What your body needs: air, food and water

Year 1 Science: Objects and the materials they are made of

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. What material is a window made of?

2. A jersey is soft and flexible. Is it made of fabric or rock?

3. Which is harder: a metal spoon or a wool sock?

4. A pencil is made of wood and graphite. Is that one material or more than one?

5. A stone and a jersey. Which one bends?

Fix the mistake

6. Correct this statement: "The object and the material are the same thing."

7. Correct this statement: "A clear plastic cup is made of glass because it looks the same."

8. Correct this statement: "Every object is made of only one material."

Year 1 Science: Light, shadows and sound

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Which two of these give their own light: the Sun, a mirror, a torch, the Moon?

2. Is it safe to look straight at the Sun?

3. You move a torch closer to a toy. What happens to the shadow?

4. How can you make a drum sound louder?

5. What is the string doing when a guitar makes a sound?

Fix the mistake

6. Correct this statement: "My shadow is a picture of me, like in a mirror."

7. Correct this statement: "The Moon makes its own light."

8. Correct this statement: "It is safe to look at the Sun if I wear sunglasses."

Year 1 Science: Living things: plants, animals and fungi

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Is a rock an organism?

2. A wētā has six legs. Which group is it in?

3. Which group is a mushroom in?

4. In Room 4's survey, which living thing did they see most?

5. A native bat has fur and feeds its babies milk. Which group is it in?

Fix the mistake

6. Correct this statement: "A mushroom is a plant because it grows in the ground."

7. Correct this statement: "A bat is a bird because it flies."

8. Correct this statement: "A frog is a reptile."

Year 1 Science: What your body needs: air, food and water

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Which part of your body does food go in through?

2. Where does air go when you breathe in?

3. Breathing out: is that arrow into the body or out of it?

4. Name the three things your body needs every day.

5. How does water your body does not need leave it?

Fix the mistake

6. Correct this statement: "When I swallow food, it goes into my lungs."

7. Correct this statement: "I only need water when I feel thirsty."

8. Correct this statement: "The air I breathe out is just the same as the air I breathe in."

Answer key (for parents and tutors)

1. What material is a window made of?
   Glass.
2. A jersey is soft and flexible. Is it made of fabric or rock?
   Fabric.
3. Which is harder: a metal spoon or a wool sock?
   The metal spoon.
4. A pencil is made of wood and graphite. Is that one material or more than one?
   More than one material.
5. A stone and a jersey. Which one bends?
   The jersey bends; the stone stays stiff.
6. Correct this statement: "The object and the material are the same thing."
   The object is the thing, like a chair; the material is what it is made of, like wood.
7. Correct this statement: "A clear plastic cup is made of glass because it looks the same."
   Some plastic looks like glass, but plastic is lighter and bends a little, while glass is stiff and can break.
8. Correct this statement: "Every object is made of only one material."
   Many objects join materials, like a pencil made of wood and graphite.

Answer key (for parents and tutors)

1. Which two of these give their own light: the Sun, a mirror, a torch, the Moon?
   The Sun and a torch.
2. Is it safe to look straight at the Sun?
   No, never, even with sunglasses.
3. You move a torch closer to a toy. What happens to the shadow?
   It gets bigger.
4. How can you make a drum sound louder?
   Hit it harder.
5. What is the string doing when a guitar makes a sound?
   It is vibrating, shaking back and forth very fast.
6. Correct this statement: "My shadow is a picture of me, like in a mirror."
   A shadow is the dark patch where your body blocks the light, so it has your outline but no colours or face.
7. Correct this statement: "The Moon makes its own light."
   The Moon only shines because light from the Sun bounces off it.
8. Correct this statement: "It is safe to look at the Sun if I wear sunglasses."
   Sunglasses do not protect your eyes enough; never look straight at the Sun.

Answer key (for parents and tutors)

1. Is a rock an organism?
   No, because it is not alive.
2. A wētā has six legs. Which group is it in?
   Insects.
3. Which group is a mushroom in?
   Fungi.
4. In Room 4's survey, which living thing did they see most?
   Bees, 5 of them.
5. A native bat has fur and feeds its babies milk. Which group is it in?
   Mammals.
6. Correct this statement: "A mushroom is a plant because it grows in the ground."
   A mushroom is a fungus; it is not green and cannot make its own food from sunlight.
7. Correct this statement: "A bat is a bird because it flies."
   A bat has fur and feeds its babies milk, so it is a mammal.
8. Correct this statement: "A frog is a reptile."
   A frog has smooth, damp skin, so it is an amphibian; reptiles like geckos have dry, scaly skin.

Answer key (for parents and tutors)

1. Which part of your body does food go in through?
   The mouth.
2. Where does air go when you breathe in?
   Down into the lungs.
3. Breathing out: is that arrow into the body or out of it?
   Out of the body.
4. Name the three things your body needs every day.
   Air, food and water.
5. How does water your body does not need leave it?
   As urine, or wee.
6. Correct this statement: "When I swallow food, it goes into my lungs."
   Food goes down a tube to your stomach; only air goes into your lungs.
7. Correct this statement: "I only need water when I feel thirsty."
   Your body needs water every day, and feeling thirsty means it already needs more.
8. Correct this statement: "The air I breathe out is just the same as the air I breathe in."
   Breathed-out air carries away a gas your body does not need.