

# 2023–2024 Gr4 Science Benchmark Unit 3

Answer Key

### Question 1. A – 1 Point

#### Standards

4-PS3-1

Use evidence to construct an explanation relating the speed of an object to the energy of that object.

### Question 2. C – 1 Point

#### Standards

4-PS3-1

Use evidence to construct an explanation relating the speed of an object to the energy of that object.

### Question 3. D – 1 Point

#### Standards

4-PS3-2

Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

### Question 4. O – 1 Point

#### Standards

4-PS3-1

Use evidence to construct an explanation relating the speed of an object to the energy of that object.

### Question 5. C – 1 Point

#### Standards

4-PS3-2

Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

### Question 6. O – 1 Point

#### Standards

4-PS3-2

Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

### Question 7. D – 1 Point

#### Standards

4-PS3-3

Ask questions and predict outcomes about the changes in energy that occur when objects collide.

### Question 8. A – 1 Point

#### Standards

4-PS3-3

Ask questions and predict outcomes about the changes in energy that occur when objects collide.

### Question 9. C – 1 Point

#### Standards

4-PS3-3

Ask questions and predict outcomes about the changes in energy that occur when objects collide.

**Question 10. C – 1 Point**

**Standards**

4-PS3-3

Ask questions and predict outcomes about the changes in energy that occur when objects collide.

**Question 11. C – 1 Point**

**Standards**

4-PS3-4

Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.

**Question 12. O – 1 Point**

**Standards**

4-PS3-4

Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.

**Question 13. O – 1 Point**

**Standards**

4-PS3-4

Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.