GCSE (9-1) Astronomy

15.3 Classification of galaxies

Pupil **Worksheet**

Week **59** Topic **15.3**

Spec. refs **15.6, 15.7, 15.8**

1. Which of the following Astronomy students is correct?

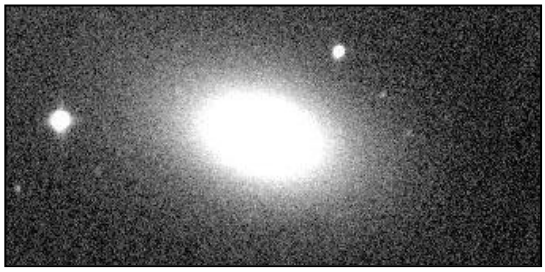
Chae-Won: Galaxies were first classified by the American astronomer Edwin Hubble.

Mark: Galaxies were first classified by the ancient Greeks such as Aristotle and Plato.

Your answer: . . . . . .

(1)

2. The image shows a distant galaxy.



Which type of galaxy is shown in the image?

☒ **A** Elliptical

☒ **B** Irregular

☒ **C** Lenticular

☒ **D** Spiral

(1)

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3. What type of galaxy is the Milky Way?

   Choose from:

elliptical	**barred spiral**	**lenticular**

   Your answer: . . . . . .

(1)

4. What is the classification of the Milky Way galaxy?

   ☒ **A** Sa

   ☒ **B** Sb

   ☒ **C** SBa

   ☒ **D** SBb

(1)

5. Which type of diagram is traditionally used to classify galaxies?

   Choose from:

Hertzsprung-Russell	**Tuning Fork**	**Supercluster**

   Your answer: . . . . . .

(1)

6. Which of the following types of galaxy has the most ‘open’ spiral arms?

   ☒ **A** Sa

   ☒ **B** Sb

   ☒ **C** Sc

   ☒ **D** SBb

(1)

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7. To which galactic type do the Magellanic Clouds belong?

   Choose from:

barred spiral	**elliptical**	**irregular**

   Your answer: . . . . . .

(1)

8. The image shows the Pinwheel Galaxy which is located in the constellation Ursa Major.

   Which type of galaxy is the Pinwheel Galaxy?

   ☒ **A** Barred spiral

   ☒ **B** Elliptical

   ☒ **C** Irregular

   ☒ **D** Spiral

(1)

9. Which of the following Astronomy students is correct?

Ainslie: The Andromeda Galaxy is an **elliptical** galaxy.

Lauren: The Andromeda Galaxy is a **spiral** galaxy.

   Your answer: . . . . . .

(1)

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10. Which of the following types of galaxy has the most prominent **nucleus**?

- ☒ **A** Sa
- ☒ **B** Sb
- ☒ **C** SBb
- ☒ **D** SBc

(1)

Solutions

1. Chae-Won (1)
2. **A** (1)
3. barred spiral (1)
4. **D** (1)
5. Tuning Fork (1)
6. **C** (1)
7. irregular (1)
8. **D** (1)
9. Lauren (1)
10. **A** (1)

Your score: / 10

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