GCSE (9-1) Astronomy

15.2 Groupings of galaxies

Pupil **Worksheet**

Week **58** Topic **15.2**

Spec. refs **15.4, 15.5, 15.13**

1. Which of the following galaxies is **NOT** a member of our Local Group?

X	**A**	Andromeda Galaxy
X	**B**	Large Magellanic Cloud
X	**C**	Sombrero Galaxy
X	**D**	Triangulum Galaxy

(1)

2. Which of the following Astronomy students is correct?

Laura: The galaxies in our Local Group are held together by gravitational forces.

Ali: The galaxies in our Local Group are held together by magnetic forces.

Your answer: . . . . . .

(1)

3. What is the approximate number of galaxies in our Local Group?

Choose from:

5	**50**	**500**

Your answer: . . . . . .

(1)

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4. The list below contains the names of some galaxies.

   Indicate whether each is a member of the Local Group (use a tick) or not (use a cross).

- ☐ Small Magellanic Cloud
- ☐ Aquarius Dwarf
- ☐ Phoenix Dwarf
- ☐ 3C 273
- ☐ Large Magellanic Cloud
- ☐ Pinwheel Galaxy

(6)

5. What is the estimated size of our Local Group?

   Choose from:

3 Mpc	**3 l.y.**	**3 AU**

Your answer: . . . . . .

(1)

6. Which of the following groups of galaxies is the largest?

   Choose from:

Coma Cluster	**Local Group**	**Virgo Supercluster**

Your answer: . . . . . .

(1)

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7. Which of the following forces is responsible for holding clusters and superclusters together?

X	**A**	Centrifugal
X	**B**	Elastic
X	**C**	Gravitational
X	**D**	Magnetic

(1)

Solutions

1. **C** (1 mark)
2. Laura (1)
3. 50 (1)
4. (1) for each correct tick or cross. Maximum 6 marks

✓	Small Magellanic Cloud
✓	Aquarius Dwarf
✓	Phoenix Dwarf
X	3C 273
✓	Large Magellanic Cloud
X	Pinwheel Galaxy

5. 3 Mpc (1)
6. Virgo Supercluster (1)
7. **C** (1)

Your score: / 12

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