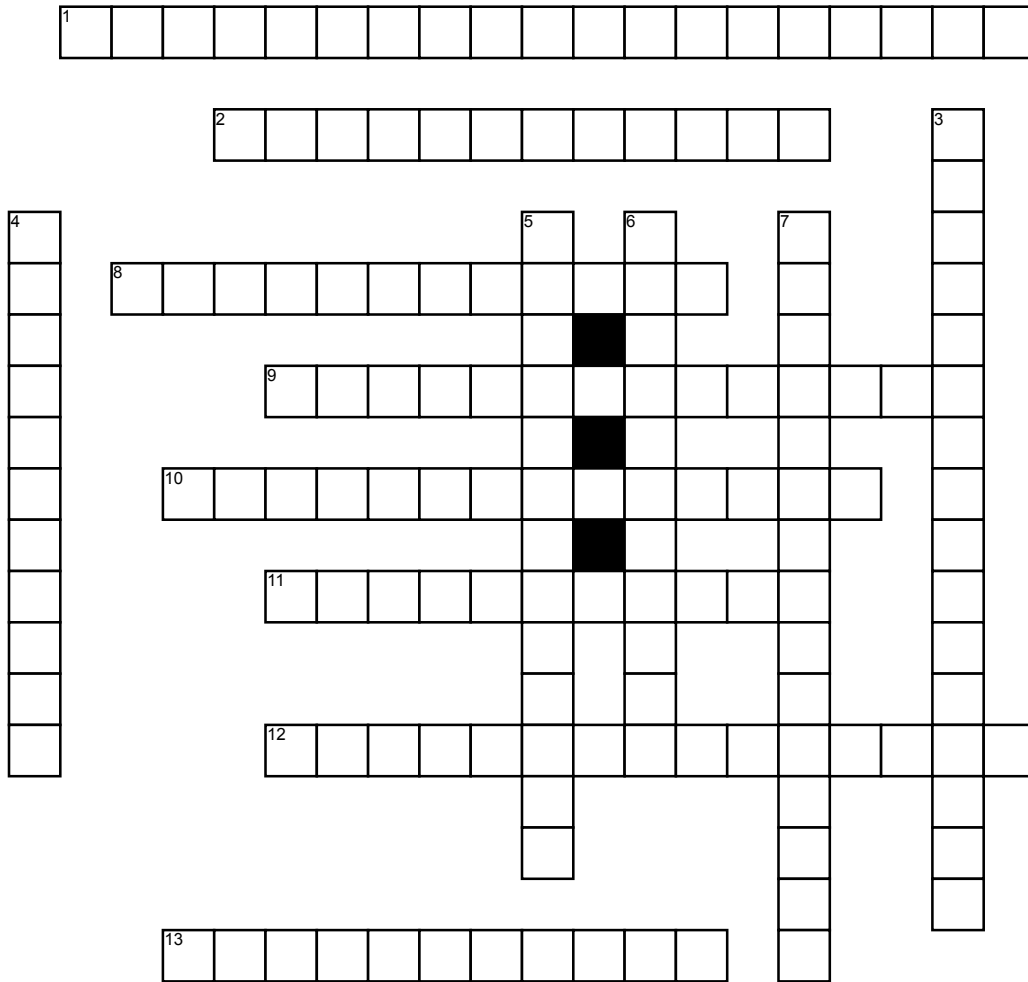


Name: _____

Date: _____

Magnetism



Across

- 1. like poles repel, unlike poles attract
- 2. The ease with which a material can be magnetized
- 8. low permeability, weak attraction to magnetic fields, ex: aluminum
- 9. Temporary magnets produced by moving electric current
- 10. created when iron oxide remains in the earth's magnetic field for ages, slowly orienting the magnetic dipoles in the same direction

- 11. Not affected by magnetic fields, cannot be magnetized, ex: glass, wood
- 12. Every magnet has two poles, a north and south
- 13. the ability of a material to stay magnetized

Down

- 3. an object gets further away, the influencing field decreases because of the increased area it affects

- 4. determined by field strength and the area in which lines of flux are located
- 5. highly permeable, greatly to induction, ex: iron, cobalt
- 6. weakly repelled by all magnetic fields, ex: water
- 7. Groups of atoms with their net magnetic field moving in the same direction

Word Bank

- | | | | |
|----------------------|---------------|-----------------|--------------------|
| Magnetic dipoles | ferromagnetic | electromagnets | permeability |
| paramagnetic | diamagnetic | Nonmagnetic | inverse square law |
| repulsion-attraction | retentivity | natural magnets | flux density |
| magnetic dipoles | | | |