

Name

1. Describe characteristics that will affect the magnetic strength of a rock or mineral.

1. The amount of iron, nickel or cobalt in the material.
2. The amount of atomic alignment in the material.

2. List 3 minerals that can become magnetic.

Iron, nickel and cobalt. Other answers possible. (See table T6)

3. Describe the modern theory that explains the cause of earth's magnetic field.

The modern theory suggests the Earth's magnetic field is caused by the flow of material in the core, which generates electricity, which is associated with the flow of electric current. The flow of these currents creates a huge electromagnetic field.

4. List instruments used to detect magnetism.

1. Compass
2. Magnetometer

5. Define a magnetic anomaly.

A magnetic anomaly is an area where the amount of magnetism is greater or less than what would normally be expected.

6. Explain the causes of magnetic anomalies.

Magnetic anomalies can be caused by magnetically charged subsurface rock

7. Explain why geologists would be interested in magnetic anomalies.

Areas that have magnetic lows can indicate areas associated with ore deposits.