Describe one of the processes that could be used to separate a mixture of iron filings, wood shavings, and salt. Be sure to include all steps.

Rubric

Key Elements:

any response indicating separating the iron filings (e.g., using a magnet)

any response indicating separating the wood shavings (e.g., adding water to dissolve the salt and filtering off the wood shavings)

any response indicating separating the salt (e.g., evaporating the water)

Score Points

2 points complete separation
1 point partial separation
0 points no separation

Standard 2: Physical Science
Benchmark 2.1.2: Separating mixtures of substances based on their properties.
Subcontent Area: chemistry
2) Study the food chain shown below.

```
Algae  Caddisfly  Stonefly  Trout
```

What **two** pieces of information about the caddisfly does this food chain provide?

1) ___________________________________________________________

2) ___________________________________________________________

Explain the effects on the algae and stonefly populations in this food chain if all the caddisflies were killed by a disease. Base your explanations on the food chain.

Algae _________________________________________________________

Stonefly ________________________________________________________
CSAP Grade 8 Science Scoring Guide

Item 2

Rubric

Key Elements:

any two of the following:

• Caddisflies eat algae.
• Stoneflies eat caddisflies.
• It tells us what caddisflies eat.
• the feeding relationship
• the flow of energy/matter from caddisfly to stonefly
• the flow of energy/matter from algae to caddisfly
• where the caddisflies get their energy

Algae: increase
AND
Stonefly: decrease

Score Points

2 points two key elements
1 point one key element
0 points other

Standard 3: Life Science
Benchmark 3.1.3: Creating and interpreting food chains and food webs.
Subcontent Area: not classified
3. Describe one natural process that plays a key role in the formation of sedimentary rock.

________________________________________________________________________________________

Describe one natural process that plays a key role in the formation of metamorphic rock.

________________________________________________________________________________________

Rubric

**Key Elements:**

*any process that describes one of the following:*

- cementation
- compaction
- deposition
- erosion
- transportation
- weathering

*one of the following:*

- heat
- pressure
- chemical transformation/change

**Score Points**

2 points two key elements
1 point one key element
0 points other

Standard 4: Earth and Space Science
Benchmark 4.1.1: Explaining how minerals, rocks, and soils form.
Subcontent Area: earth science