

**CSAP**  
**Science**

**1**

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.

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**Rubric**

**Key Elements:**

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

**CSAP**  
**Science**

**2** Study the food chain shown below.



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:**

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*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
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Algae: increase

**AND**

Stonefly: decrease

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**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.

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

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### Rubric

#### Key Elements:

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*any process that describes one of the following:*

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

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*one of the following:*

- heat
- pressure
- chemical transformation/change

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#### 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