

EveryDay Earth C-E-R Rubric

for Evaluating Student Worksheet Responses

Example: Mission 2 Lesson 1



<u>CLAIM</u>	<u>EVIDENCE</u>	<u>REASONING</u>
<ul style="list-style-type: none"> • No claim or inaccurate claim = 0 <ul style="list-style-type: none"> • The pile of boulders was placed by people. (There is no data or evidence suggesting this is the case.) • Accurate but Vague or Incomplete Claims = 1 <ul style="list-style-type: none"> • The pile of boulders were caused by weathering. (While true, the pile was a result of glacier transport too, not weathering in place.) • Accurate and Complete Claim = 2 <ul style="list-style-type: none"> • The pile of boulders were caused by weathering from water and ice, and the action of glaciers on the mountain. (This is a complete statement given the clues in Mission 2 Lesson 1.) 	<ul style="list-style-type: none"> • Does not provide evidence, or only provides inappropriate or vague evidence. = 0 <ul style="list-style-type: none"> • The data suggests there are a pile of rocks. (Vaguely true, but the evidence does not help reason why weathering and glaciers form the pile.) • General statements about the claim that are proper but do not include more than 1 data specific. = 1 <ul style="list-style-type: none"> • The data suggests the temperature is freezing and ice broke the rocks into a pile. (Specific data shows that the combination of freezing and thawing breaks the rocks; also, no mention of evidence of ice movement of the rocks.) • Provides at least 2 of All Key Pieces of Evidence = 2 <ul style="list-style-type: none"> • The shape of the valley and piling of boulders indicate the valley was carved by glaciers. • Provides at least 3 of All Key Pieces of Evidence = 3 <ul style="list-style-type: none"> • The shape of the valley, piles of boulders and presence of block of ice in the valley suggest the glaciers were a force of weathering. The water and ice present together suggest melting and freezing, which explains how the boulders are formed. 	<ul style="list-style-type: none"> • Does not provide reasoning, or only provides inappropriate reasoning. = 0 <ul style="list-style-type: none"> • Piles of rocks are placed for decoration on the mountain. (Vaguely true, but the reasoning does tie data to supporting the claim and misses the point of the lesson.) • Repeating evidence and linking to the claim without referencing scientific processes and principles. = 1 <ul style="list-style-type: none"> • The data suggests the rocks were broken apart to make the pile of boulders. (Specific lack of mention of scientific processes and principles; such as physical or mechanical weathering or glacial transport.) • Provides at least 2 of 3 Key Reasoning Points = 2 <ul style="list-style-type: none"> • Glaciers physically carved the mountain shape and piling of boulders indicate the valley was once carved by glaciers. (Almost a complete reasoning, except leaving out the major theme – weathering.) • Provides All Key Reasoning Points = 3 <ul style="list-style-type: none"> • The effects of freezing and thawing water, frst wedging, created the boulders, which were moved by glaciers until the ice melted, leaving behind piles of boulders called moraines. Frost wedging is a type of weathering, the breaking down of rocks into smaller pieces through the work of wind, water or ice. (Well reasoned, evidence supported claims.)