What properties can we observe and compare in different minerals?

Same

- ✓Smooth?
- ✓Shiny
- ✓Bumpy
- ✓Dents

Different

Mineral C	Mineral J
✓cubed	flat
✓hard	flacky
✓dark color	light color
✓metal	silver/gold
Smooth	Bumpy

FIGURE 4–23 Dezmarie's box and T-chart

Mineral C and Mineral J are the same in many ways. They both are smooth and shiny in some spots. They also have bumps and dents as well.

Mineral C and Mineral J are different as well. Mineral C is cuded but Mineral J is flat. They also are different because Mineral C is really hard but Mineral J is really flacky. Their colors are as different as their shape. Like, Mineral C is a metal color but Mineral J is a silver with some gold. In addition Mineral C is a little bit smoother than Mineral J. Mineral J is smooth but more bumppier.

FIGURE 4–24 Dezmarie's written comparison

11-29-05

I think the steep slope made the water flow go faster. I think this because since the stream table is tilted, I observed that it made the water faster. This is caused by gravity. I think the steep slope made the water flow create more erosion and deposition. I think this because since the water is faster, it creates more erosion.

I think the steep slope made more erosion because I observed that it created so much erosion that I could see the bottom of the stream table! There were cliffs of great size too! However, in the rushing river I observed that there was way less erosion. My data provide evidence that this is true. For example, the depth of the stream channel in the steep slope was 5.6 cm deep! However, the depth of the stream channel in the rushing river was only 3.5 cm deep. Another example is that the width of the stream channel in the steep slope was 19.5 cm wide! However the width of the stream channel in the rushing river was only 7.5 cm wide. The width of the stream channel in the steep slope is even wider than the width of the stream channel in the rushing river, even if the width of the stream channel in the rushing river was twice as big! These data show that the steep slope creates more erosion than the rushing river!

I think the steep slope made more deposition. I think this because in the steep slope I observed that there was so much deposition that it clogged up the lake that water can't even go through the hole into the dump bucket! We had to shovel away soil from the hole so water can go through! However, in the rushing river, I observed that there was not as much deposition as the steep slope. My data provide evidence that this is true. For example, the width of the deposition in the steep slope was 23.5 cm wide! However, the width of the deposition in the rushing river was only 19 cm wide. Another example is that the length of the deposition in the steep slope was 21 cm long! However, the length of the deposition in the rushing river was only 14.5 cm long. Also the depth of the deposition in the steep slope was 4.5 cm deep! However the depth of the deposition in the rushing river was only 1 cm deep. If the depth of the deposition in the rushing river was 4 times deeper, the steep slope will still be deeper!

Therefore, I think that a steep slope causes more deposition too. My prediction was correct because I predicted that the steep slope will create more erosion.

FIGURE 5–21 Calvin's complex conclusion