

Teacher 1

Teacher OK. So your WARM up
for today
What types of ROCKS
ARE there?
What types of rocks are THERE.
Is everyone FINISHED
writing that DOWN=

Students (unison) =Yes=

Teacher =In your notebook=

Students (unison) =Yes.

Teacher Ok. So go ahead and CLOSE your notebooks.

Student Close your notebooks.

Teacher Talking about TYPES of ROCKS.
Sherry.
What's ONE type of rock?

Student Igneous?

Teacher IGneous.
IGNEOUS is a type of rock.
What ELSE?
What are the=

Student Magma.

Teacher Magma isn't a ROCKS.
Magma COOLS to MAKE a rock
But it's NOT a rock.
Jorge.

Student Sedimentary?

Teacher SEDIMENTARY.
So we've got IGNEOUS.
We've got SEDIMENTARY.
What ELSE?
Sandra.

Student Metamorphic?

Teacher

METAMORPHIC.
OK.
METAMORPHIC.
Those are our THREE types.

How are they DIFFERENT?
How are they DIFFERENT?
How are they the SAME?
EITHER one.

Liz.

Student

Each one of them is
Are formed differently.

Teacher

They're formed DIFFERENTLY.
That's RIGHT.
They're formed DIFFERENTLY.

So do we know how SEDIMENTARY was formed. WHO can
tell=

Student

=no=

Teacher

=me.

Bob.

Student

When smaller rocks like STICK together [inaudible]

Teacher

Good.
So when SMALL ROCKS stick TOGETHER
what's another WORD for
SMALL ROCKS.

Matt.

Student

Sediment.

Teacher

SEDIMENT.
When SEDIMENT
STICKS TOGETHER

Teacher 2

Question posed (not included in video clip)

What does all rock have in common? In your journal explain your reasoning and see if you can think of an example that does not have this characteristic. [Students respond using clickers.]

- a. *All rock is hard.*
- b. *All rock is heavy.*
- c. *All rock is jagged.*
- d. *All rock is changing over time.*

Teacher	OK. So we've GOT our Twenty-three HERE. Zero ZERO. And ONE for all rock is HARD. So let's TALK about WHY you chose what you DID. Uh. Let's start with A. Why might somebody choose A, "All rock is HARD." Um. Allison.
Student	Maybe because MOST of the rocks are / like HARD and not easily BROKEN.
Teacher	OK. Anybody have anything to ADD to that? Deb?
Student	Well / It IS kind of TRUE but they're all not REALLY hard because some CRUMBLE or STUFF, so.
Teacher	Can you THINK of something in your EXPERIENCE where you had rock CRUMBLE?
Students	When we were looking at them a couple of DAY ago? There was ONE of them where you kind of PUSHED on it, it kind of CRUMBLED a little bit?
Teacher	OK. Aaron?

Student Well, same as DEB,

Except there was in our ex-/ INVESTIGATION
I think there was like a BLACK ROCK
and I kind of HIT it with my finger,
and part of the ROCK fell out,
so that's why not ALL rocks are hard.

Teacher So that's why you would argue AGAINST
Question or Answer A
Anyone else on reasons why someone might CHOOSE A?
OK. Ch / LIZZIE.

Student I WOULDN'T choose it
But USUALLY when you think about rocks
You think /
ROUND and HARD.
[Several students voice agreement]

Teacher So most of –
Everybody's in AGREEMENT with that.
How many of you had a similar THOUGHT to
DEB um and
I forget who ELSE who said it
And AARON
(Thank you) [to student who helped her remember]

That thinking back to that BLACK rock that CRUMBLED in the investigation.

Student What kind of rock WAS that?

Teacher Anybody have any THOUGHTS about what kind of rock that was.

Student I thought it was coal or something=

Teacher =That was on the FIRST
day so
Which-which KIND of rocks /
KIND of rocks was it?
Sedimentary, igneous, or metamorphic?

Student Sedimentary.