

Maps

Equal proportions			
Majority red			
Minority red			
	Red closer	Red farther	Intermixed

Access to the experiment questions

After reading the task description, participants were presented with the following screen.

Let's make sure it's all clear!

Please answer the following questions carefully.
If you respond incorrectly we'll ask you to read the instructions again.

1. Which of the following is true:

The orange mineral is worth more than the green mineral.
Both minerals have the same value.
The mineral value changes over time.

2. Bob the miner...

Always visits different mines.
Always visits the same mine.



3. How many minerals does bob collect in each mine?

One.
Two.
Three.



Participants had to respond all three questions correctly to gain access to the experiment. The correct answer to question one was “The mineral value changes over time”, the correct answer to the second question was “always visits different mines.” And the correct answer to the third question was either “one” or “three” depending on the condition (“one” in the condition where the miner collected one mineral per trip, and “three” for the conditions where the miner collected three minerals in one trip, and the condition where the miner collected three minerals in three trips.

Screenshot of questions asked in each trial


What are the mineral proportions?



- More 
- More 
- Equal numbers

How are the minerals distributed?

-  closer to entrance
-  closer to entrance
- Minerals are intermixed

What are the mineral values?



 much more valuable Equally valuable  much more valuable

How confident are you about this?



Not at all Extremely confident

Continue

Compound model details

Results from regression training the Efficiency+Statistical model using participant judgments on preference inferences:

	Estimate	P-value
Intercept	-1.9e-17	1
Efficiency prediction	0.814	<2e-16
Statistical prediction	-9.74e-02	0.068

Results from regression training the Spatial+Statistical model using participant judgments on preference inferences:

	Estimate	P-value
Intercept	1.33e-17	1
Spatial prediction	0.3702	0.0129
Statistical prediction	0.2723	0.0637

Results from regression training the Efficiency+Statistical model using participant judgments on confidence judgments:

	Estimate	P-value
Intercept	-2.5e-17	1
Efficiency prediction	0.325	1.22e-6
Statistical prediction	0.037	0.56

Results from regression training the Spatial+Statistical model using participant judgments on confidence judgments:

	Estimate	P-value
Intercept	1.28e-17	1
Spatial prediction	-0.165	0.09
Statistical prediction	0.263	0.0083