

# SCIENCE EXPLORATIONS

WEB QUEST

## All That Glitters

Explore the Web Quest online and use the space below to record what you learn.



### Questions

1. Jim Webster is an Earth scientist at the American Museum of Natural History. He's also in charge of a special exhibition about gold. Jim explains how gold forms in All That Glitters . Where does gold form in the Earth? Now check out the map "Gold Mining Around the World" and name three countries from different continents that produce gold.

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2. Did you know that gold is the only metal that's yellow in its pure, natural state? Explore Gold Properties that are highlighted in the GOLD exhibition. Explain why gold is used in astronauts' helmets.

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3. Did you know gold comes in different colors? Read the Language of Gold and name three different colors of gold. Explain what makes gold different colors. (Hint: "Alloy" means to mix metals together.)

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4. Jade is another rare material from the Earth. But unlike gold, a precious metal, jade is a valuable rock. In fact, "jade" is actually a common name for two different rocks, jadeite and nephrite. George Harlow is an Earth scientist at the American Museum of Natural History who studies jade. Read about jade's colors and patterns . Name three different colors of jade. What color is pure jade? What makes jade green?

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5. George Harlow has studied jade all over the world. Long ago, people made tools from jade rock. Read about what makes jade special. Why is jade such a good material for tools?

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6. Take a look at another treasure from the Earth, the Star of India . This amazing gem is on display at the American Museum of Natural History. What kind of precious stone is the "Star of India"? What color is it? When was it formed? Draw a picture of it.

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7. Check out What's This? to see a mystery photo from the American Museum of Natural History. It is an award plated with a precious metal. Can you guess what it is?



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WEB QUEST: ALL THAT GLITTERS?

## Bonus Question: Everyday Minerals

Many valuable materials come from the Earth – even if they're not precious gems or metals. Click around Rocks in Your Cabinet and identify three everyday rocks and minerals found around your home.

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