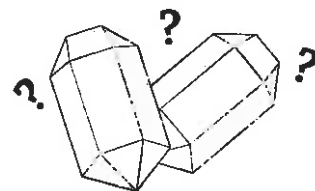


What's My Mineral? Worksheet

Pre-Game Questions

Read through all the game instructions and then answer the following questions.

1. List the questions below from least specific to most specific. Which would be the best question to ask near the beginning of the game? Explain your choice.
 - a. Is the hardness of your mineral less than 5?
 - b. Is your mineral sulfur?
 - c. Does your mineral break with a cleavage pattern?
2. Player one's mystery mineral is copper. Explain how player one should answer if the opponent asks "Will galena scratch your mineral?"
3. What is the penalty for an incorrect guess? Why might a player choose to take that risk?



Post-Game Questions

1. Why can't a mineral be classified by color alone?
2. Many of the 24 minerals on the properties chart have a white streak. What else do these minerals have in common?
3. A mineral has been found that looks like gold. Describe how you would determine whether the mineral is gold or "fool's gold."
4. The possibilities for an opponent's mystery mineral have been narrowed down to seven minerals—apatite, biotite, kaolinite, microcline, quartz, talc, and topaz. What question could be asked that would guarantee the elimination of more than two of the remaining possibilities?

What's My Mineral? Master Mineral List

Round	1	2	3	4	5	6	7	8	9	10
Apatite										
Biotite										
Calcite										
Chalcocite										
Chalcopyrite										
Copper										
Corundum										
Dolomite										
Fluorite										
Galena										
Gold										
Graphite										
Gypsum										
Hematite										
Kaolinite										
Magnetite										
Malachite										
Microcline										
Pyrite										
Quartz										
Silver										
Sulfur										
Talc										
Topaz										

© 2011 Flinn Scientific, Inc. All Rights Reserved. Reproduction permission is granted only to science teachers who have purchased What's My Mineral?, Catalog No. AP7520, from Flinn Scientific, Inc. No part of this material may be reproduced or transmitted in any form or by any means, electronic or mechanical, including, but not limited to photocopy, recording, or any information storage and retrieval system, without permission in writing from Flinn Scientific, Inc.

What's My Mineral? Master Mineral List

Round	1	2	3	4	5	6	7	8	9	10
Apatite										
Biotite										
Calcite										
Chalcocite										
Chalcopyrite										
Copper										
Corundum										
Dolomite										
Fluorite										
Galena										
Gold										
Graphite										
Gypsum										
Hematite										
Kaolinite										
Magnetite										
Malachite										
Microcline										
Pyrite										
Quartz										
Silver										
Sulfur										
Talc										
Topaz										

© 2011 Flinn Scientific, Inc. All Rights Reserved. Reproduction permission is granted only to science teachers who have purchased What's My Mineral?, Catalog No. AP7520, from Flinn Scientific, Inc. No part of this material may be reproduced or transmitted in any form or by any means, electronic or mechanical, including, but not limited to photocopy, recording, or any information storage and retrieval system, without permission in writing from Flinn Scientific, Inc.