4. Observe the large metamorphic samples provided.

MUST WEAR GOGGLES.

If you perform the acid test you

held "Solution for Metamorphic Rock Identification.”

3. Complete the Report Sheet using your samples and chart in the Appendix of this lab book.

2. Arrange your samples in the order demonstrated by your instructor.

1. Obtain the metamorphic rocks from your instructor.

PROCEDURE:

acetic acid:

sublime solution:

stir reagent:

collection:

reaction:

VOCABULARY:

can be identified.

OBJECTIVE: You will investigate the properties by which different types of metamorphic rocks

measures.

The surrounding rock is changed, or metamorphosed, as a result of being in contact with the hot

Contact metamorphic rocks are formed at the interface of hot magma and existing rocks.

conditions of temperature and pressure at great depths.

Regional metamorphic rock is formed by forces acting over wide areas under extreme

rocks.

INTRODUCTION: The word "metamorphic" comes from Greek words meaning io change form

IDENTIFICATION

LAB 2-5: METAMORPHIC ROCK

UNIT 2: EARTH MATERIALS

______________________________  ________________________________  ________________________________
INSTRUCTOR  PERIOD  PARTNER

______________________________  ________________________________
DATE  NAME
<table>
<thead>
<tr>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td>Foliated or Nonfoliated</td>
<td>If Foliated, Give Type</td>
<td>Type of Metamorphism (Contact/Regional)</td>
<td>Probable Original Rock</td>
</tr>
</tbody>
</table>
**DISCUSSION QUESTIONS:** *(Answer in Complete Sentences)*

1. Why are metamorphic rocks formed by contact metamorphism usually not as dense as those formed by regional metamorphism?

2. How could you differentiate between white marble and white quartzite?

3. Why do you seldom find fossils in metamorphic rocks?

4. Why do minerals in metamorphic rocks often rearrange in layers?

5. Why is quartzite very hard and more resistant than its parent rock?

**CONCLUSION:** On what basis can metamorphic rocks be identified?