

What Rocks on the Block?

Fifth Avenue Building Stones Walking Tour

Name: _____ Date: _____

Earth Science Teacher: _____

Introduction

The purpose of this walking tour is to discover and observe some of the different rock types and textures found in this area. Since these rocks are on or near buildings, you have probably walked by them many times without ever realizing it!

Tasks

- Use a cellphone or digital camera to take pictures of each rock type that you see at each stop. Make sure to get at least one photo from a distance and at least one close-up. For the close-up photo, be sure to include something for scale (such as a finger, coin, pen, pencil, or ruler) in the picture.
- Answer the questions for each station by making check or x marks, or by filling in the blanks. Some questions will have multiple answers.
- After completing the information in sections a–d, sketch what you see, then write a sentence or two describing your observations. You can talk about colors you see, textures you feel, or anything else that makes the station unique. If you know the rock's name, write it there!

Stop 1: Grand Army Plaza (near General Sherman Statue)

a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____

b) **Can you see crystals?** Yes ____ No ____

If yes, how big are they (in mm)? ____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____

If yes, which texture is the rock?

Clastic (fragmental) ____

Crystalline/Chemical) ____

Bioclastic) ____

d) **Do you see evidence of metamorphic textures?** Yes ____ No ____

If yes, which type?

Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 2: Building at 785 5th Avenue (between 60th and 59th Streets)

a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____

b) **Can you see crystals?** Yes ____ No ____

If yes, how big are they (in mm)? ____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____

If yes, which texture is the rock?

Clastic (fragmental) ____

Crystalline/Chemical) ____

Bioclastic) ____

d) **Do you see evidence of metamorphic textures?** Yes ____ No ____

If yes, which type?

Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 3: Harry Cipriani (between 60th and 59th Streets)

a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____

b) **Can you see crystals?** Yes ____ No ____

If yes, how big are they (in mm)? ____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____

If yes, which texture is the rock?

Clastic (fragmental) ____

Crystalline/Chemical) ____

Bioclastic) ____

d) **Do you see evidence of metamorphic textures?** Yes ____ No ____

If yes, which type?

Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 4: Delvaux at 781 5th Avenue (between 60th and 59th Streets)

a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____

b) **Can you see crystals?** Yes ____ No ____

If yes, how big are they (in mm)? ____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____

If yes, which texture is the rock?

Clastic (fragmental) ____

Crystalline/Chemical) ____

Bioclastic) ____

d) **Do you see evidence of metamorphic textures?** Yes ____ No ____

If yes, which type?

Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 5: Plaza outside the GM Building and the Apple Store (between 59th and 58th streets)

a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____

b) **Can you see crystals?** Yes ____ No ____

If yes, how big are they (in mm)? ____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____

If yes, which texture is the rock?

Clastic (fragmental) ____

Crystalline/Chemical) ____

Bioclastic) ____

d) **Do you see evidence of metamorphic textures?** Yes ____ No ____

If yes, which type?

Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 6: The GM Building (between 59th and 58th streets)

a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____

b) **Can you see crystals?** Yes ____ No ____

If yes, how big are they (in mm)? ____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____

If yes, which texture is the rock?

Clastic (fragmental) ____

Crystalline/Chemical) ____

Bioclastic) ____

d) **Do you see evidence of metamorphic textures?** Yes ____ No ____

If yes, which type?

Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 7: 9 West 57th Street (between Fifth and Sixth Avenues)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 8: Bergdorf Goodman (between 58th and 57th Streets)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 9: Tiffany & Co

(between 57th and 56th Streets)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 10: Trump Tower

(between 57th and 56th Streets)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 11: Fifth Avenue Presbyterian (between 56th and 55th Streets)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 12: St. Patrick's Cathedral (between 51st and 50th Streets)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 13: Rockefeller Center, Atlas Statue (between 51st and 50th Streets)

- a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____
- b) **Can you see crystals?** Yes ____ No ____
If yes, how big are they (in mm)? ____
- c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____
If yes, which texture is the rock?
Clastic (fragmental) ____
Crystalline/Chemical) ____
Bioclastic) ____
- d) **Do you see evidence of metamorphic textures?** Yes ____ No ____
If yes, which type?
Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 14: Rockefeller Center, Entryway (between 51st and 50th Streets)

- a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____
- b) **Can you see crystals?** Yes ____ No ____
If yes, how big are they (in mm)? ____
- c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____
If yes, which texture is the rock?
Clastic (fragmental) ____
Crystalline/Chemical) ____
Bioclastic) ____
- d) **Do you see evidence of metamorphic textures?** Yes ____ No ____
If yes, which type?
Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 15: Rockefeller Center Plaza, Inside (between 51st and 50th Streets)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 16: Rockefeller Plaza, International Building (45 Rockefeller Plaza/630 Fifth Avenue, Lower Level)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 17: Sak's Fifth Avenue (between 50th and 49th Streets)

- a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____
- b) **Can you see crystals?** Yes ____ No ____
If yes, how big are they (in mm)? ____
- c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____
If yes, which texture is the rock?
Clastic (fragmental) ____
Crystalline/Chemical) ____
Bioclastic) ____
- d) **Do you see evidence of metamorphic textures?** Yes ____ No ____
If yes, which type?
Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 18: Philippine Consulate (between 46th and 45th Streets)

- a) **Rock type:** Igneous ____ Sedimentary ____ Metamorphic ____
- b) **Can you see crystals?** Yes ____ No ____
If yes, how big are they (in mm)? ____
- c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ____ No ____
If yes, which texture is the rock?
Clastic (fragmental) ____
Crystalline/Chemical) ____
Bioclastic) ____
- d) **Do you see evidence of metamorphic textures?** Yes ____ No ____
If yes, which type?
Foliation ____ Banding ____ Distortion ____

Sketch

Description:

Stop 19: 10 West 46th Street (between Fifth and Sixth Avenues)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description:

Stop 20: 16 West 46th Street (between Fifth and Sixth Avenues)

a) **Rock type:** Igneous ___ Sedimentary ___ Metamorphic ___

b) **Can you see crystals?** Yes ___ No ___

If yes, how big are they (in mm)? _____

c) **Can you see pieces of other rocks or fossils inside the rock?** Yes ___ No ___

If yes, which texture is the rock?

Clastic (fragmental) ___

Crystalline/Chemical) ___

Bioclastic) ___

d) **Do you see evidence of metamorphic textures?** Yes ___ No ___

If yes, which type?

Foliation ___ Banding ___ Distortion ___

Sketch

Description: