

GEOLOGY 12
UNIT 1
Plate Tectonics

Learning Guide 1

Introduction to Geology

READ THIS FIRST!

Welcome to the crème de la crème of the earth sciences. You are about to embark on an incredible journey into the study of the planet on which you live. You will explore its composition, the processes which have made it what it is today, and how we interact with it.

KEYS TO SUCCESS IN THIS COURSE

- Complete all of the assignments on or before the unit deadlines.
- Attend all of the mandatory blocks. If you happen to miss one, see your teacher as soon as possible.
- Actively read the text book.
- Complete your journal entries so you are prepared for the seminars.
- Prepare well for tests.
- See your teacher on a regular basis.

LEARNING GUIDE OUTCOMES

On completion of this Learning Guide you will be able to:

- describe geology as a discipline.
- describe three aspects of geology that makes it different from other sciences
- compare and evaluate various careers associated with geological technologies and sciences.

EVALUATION

- | | |
|-----------------------------|------|
| 1. LA1 Career Advertisement | 100% |
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RESOURCES

1. Text: **Physical Geology & the Environment**
2. Internet

LEARNING ACTIVITIES

Activity 1

Journal

It is very important in this course that you **ACTIVELY READ** the text (read a section with a pen and paper at hand, putting down important information). Part of the evaluation of this course will consist in you keeping a neat, organized **JOURNAL** separate from your text questions. The learning guides will refer to your entries frequently, but you are encouraged to make your own entries. In order for your journal to be meaningful to you, your journal entries should be in your own words. Copying information directly out of the text, will be useless and a waste of your time if it has no meaning to you. The journal will be an important tool to help you prepare for the unit tests and the provincial final exam.

1. Your main resource, of course, will be your text **Physical Geology & the Environment**. In each of the learning guides you will be required to familiarize yourself with text information. Unless specifically requested, the work from the text will not generally be submitted for evaluation. The readings and questions assigned are designed and selected to help you meet the prescribed learning outcomes and to give background information to enable you to complete other exercises. In other words, it's a good idea to do them in some form or another, preferably in your notebook for your future reference. Generally, just reading the material and answering the questions in your head does not help it to stay there. Note-taking and careful written answering of questions, as well as extensive discussion with your teacher, will help it to stick.
2. From **Physical Geology & the Environment**, read Ch. 1 Introduction to Physical Geology and the Environment p. 1 - 19. We will go into more detail on all of the topics mentioned here later in the course, but the chapter gives a nice introduction to the discipline of Geology.

Activity 2: So You Want To Be a Geologist?

1. A great variety of jobs and careers are available through the geosciences. Through a variety of resources such as the text book and the internet, make a list of as many different jobs/careers in the field of Geology as you can.
2. Create a job description/poster advertising one of the topics you have discovered. There are some examples in your textbook, but you may use other resources. Your advertisement should include:
 - a job title
 - a brief description of what the job entails (3 - 4 sentences)
 - the locations involved in doing this job
 - qualifications of applicants
 - an approximate annual salary and/or benefits, if available.

End of LG 1