

# Characteristics of Linear Functions **KEY**

## Linear Functions

Linear Functions Form:

$$y = mx + b$$

Slope:

Intercept (y):  $b$

Range:

Domain (x):  $\mathbb{R}$



Table

| x  | y  |
|----|----|
| -2 | -1 |
| -1 | 1  |
| 0  | 3  |
| 1  | 5  |
| 2  | 7  |

- What pattern do you observe in the table and graph of the linear function? For each point, the x-value and y-value are equal, the x increases by 1, the y increases by 2.

## Characteristics of Linear Functions

Characteristics of linear functions (slope, intercept, and domain) have been addressed in previous math courses.

Source of Linear Equations

Standard Form:

$$Ax + By = C \text{ (A, B, and C are integers and A is positive value)}$$

Slope-Intercept Form:

$$y = mx + b \text{ (m is slope, b is y-intercept)}$$

Point-Slope Form:

$$y - y_1 = m(x - x_1)$$

Slope-Intercept Form

In the slope-intercept form, slope (m) describes the line (slope) and b (the y-intercept) affects the graph of the linear function.

### Changes caused by m

- $m = 0$ , no change in slope of passing function
- $m = 1$ , m is positive and the line increases from left to right
- $m = 2$ , m is negative and the line passes as a line, decreasing from left to right
- $m = 3$ , slope of the graph increases (steep)

### Changes caused by b

- $b = 0$ , no change in y-intercept of passing function, always (0, 0)
- $b = 1$ , vertical shift up 1 unit
- $b = 2$ , vertical shift down 2 units

# Algebra Hs Mathematics Unit 1lesson 01

**Padhraic Smyth**



## **Algebra Hs Mathematics Unit 1lesson 01:**

*Resources in Education* ,2001      **Teaching and Learning High School Mathematics** Charlene E. Beckmann,Denisse R. Thompson,Rheta N. Rubenstein,2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans      [Index to Educational Audio Tapes](#) National Information Center for Educational Media,1974      [Research in Education](#) ,1974      **Index to Educational Audio Tapes** ,1974      **Announcement** Washington State University,1929      **Edexcel Modular** ,2010 This teacher s pack contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A      **Chicago Tribune** ,1978      *Title Index, ERIC ED Accessions File* ERIC Processing and Reference Facility,1966

Resources in Education ,1997      *Comparative Case Studies of Mathematics Instruction and Learning in Three High-achieving European Countries* Takako Kawanaka,2000      **AQA Modular** ,2010 This teacher s pack contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A  
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**Resources in Vocational Education** ,1980      **Catalog** Kansas State Teachers College of Emporia,1928      **El-Hi Textbooks & Serials in Print, 2005** ,2005      Everyday Mathematics, Grade 5, Student Math Journal 1 Max Bell,Amy Dillard,UCSMP,Andy Isaacs,James McBride,2002-12-04 These consumable books provide lesson support material for students to analyze and complete They provide a long term record of each student s mathematical development      College Credit Recommendations ,1994      *Mathematical Reviews* ,2005

## **Algebra Hs Mathematics Unit 1lesson 01** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Algebra Hs Mathematics Unit 1lesson 01**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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