

TABLE OF CONTENTS

Unit Introduction: CROWDING THE RIM	1
Rationale and Introduction to Lessons	1
Unit Goals	3
Connections to National Curriculum Standards	4
Materials	5
Time, Suggested Sequence of Activities	5
Subjects, Suggested Grade Levels	6
Lesson One: WHAT IS RISK?	7
Handout	
#1: <i>An Increasing Vulnerability to Natural Disasters Article</i>	14
Teacher Information Cards	
#1: Explanations of Photographs	17
#2: Examples of Natural Disasters	19
Transparencies	
#1: Definition: Risk	23
#2: Exposure to Risk Questions	24
Homework Card	
#1: Collection of Natural Hazard Articles	25
Lesson Two: EXPLORING HAZPAC	27
Handouts	
#1: HazPac Overview and Quick Tips	31
#2: HazPac Tutorial Part One	33
#3: HazPac Tutorial Part Two	41
Teacher Information Cards	
#1: HazPac Tutorial Part One, Answer Key	49
#2: HazPac Tutorial Part Two, Answer Key	52
Lesson Three: ASSESSING RISK OF PACIFIC RIM CITIES	55
Handouts	
#1: City Risk Assessment: Perceived Risk	62

table of contents

#2:	City Risk Assessment: Calculated Risk	64
#3:	Defining Risk	66
#4:	Defining Risk with Vulnerability	67
#5:	City Risk Assessment: Parochial Risk	68
Teacher Information Cards		
#1:	Value Questions, Answer Key	70
#2:	Ten Major Cities Data Sources	71
Transparencies		
#1:	Definition: Value	73
#2:	Value Questions	74
#3:	Locator Map of Ten Major Cities (packaged separately)	
#4:	Hong Kong, China Maps (packaged separately)	
#5:	Jakarta, Indonesia Maps (packaged separately)	
#6:	Los Angeles, USA Maps (packaged separately)	
#7:	Manila, Philippines Maps (packaged separately)	
#8:	Mexico City, Mexico Maps (packaged separately)	
#9:	San Francisco, USA Maps (packaged separately)	
#10:	Santiago, Chile Maps (packaged separately)	
#11:	Singapore, Singapore Maps (packaged separately)	
#12:	Sydney, Australia Maps (packaged separately)	
#13:	Tokyo, Japan Maps (packaged separately)	
Lesson Four: INTERDEPENDENCE 75		
Handouts		
#1:	The Hanshin Earthquake in Kobe, Japan	80
#2:	Themes Impacted by the Hanshin Earthquake	84
#3:	Resources for Natural Hazard Information	85
Teacher Information Card		
#1:	Themes Impacted by the Hanshin Earthquake, Answer Key	86
Activity Cards		
#1:	Biological Research Group Activity	87
#2:	Economic Research Group Activity	89
#3:	Geological Research Group Activity	91
#4:	Infrastructure Research Group Activity	93
#5:	Social Research Group Activity	95

table of contents

Lesson Five: NATURAL HAZARD MITIGATION	97
Handout	
#1: Natural Hazard Mitigation: A Readers' Theater	101
Activity Card	
#1: Character Name Cards	110
Lesson Six: TAKING ACTION	113
Activity Card	
#1: Taking Action	116
Appendices	119
Glossary	120
References	123
Recommended Resources	127