Name	Date
Human Activity	y in the Amazon Answer Key
resources often lie deep in the forest. places where they can be easily export could transport resources more efficient or eviously been untouched. This lever railroad, which will alter the ecosystem ap, Amazonia: The Human Impact,	urces that are in high demand around the world. These This makes it difficult to transport these resources to other ted to the countries that want them. A transcontinental railroad ently, but it also means developing areas of the forest that had I of development will affect the land cover that surrounds the m and impact the livelihood of indigenous people. Using the complete this worksheet to predict the effects the railroad tem and neighboring indigenous territories.
1. What countries and territories are le	ocated in Amazonia?
Brazil	Peru
Colombia	Venezuela
Colombia Ecuador	Venezuela Bolivia
	<del></del>
Ecuador	Bolivia
Ecuador Guyana French Guiana (territory)  2. Which country holds most of the ra	Bolivia Suriname  ain forest? How much? Brazil (60%)
Ecuador Guyana French Guiana (territory)  2. Which country holds most of the ra	Bolivia Suriname  ain forest? How much? Brazil (60%)  for the land cover key. Use the large map and the
Ecuador  Guyana  French Guiana (territory)  2. Which country holds most of the range of the map of land cover key to answer the quest	Bolivia Suriname  ain forest? How much? Brazil (60%)  for the land cover key. Use the large map and the
Ecuador Guyana French Guiana (territory)  2. Which country holds most of the range of the lower right of the map of land cover key to answer the quest a. Where are high-density evergree	Bolivia Suriname  ain forest? How much? Brazil (60%)  for the land cover key. Use the large map and the tions below.



b.	Where do you see a lot of cropland, grassland, and savannah?	Mostly in the areas noted
	above that did not have heavy evergreen forest. There is also a	a pattern of this type of land
	cover around roads (paved roads seem to be surrounded by the	nis type of land cover).
c.	Identify patterns of land cover throughout the Amazon rain fores	st. In general, where there is a
	lot of human activity (as indicated by cities and roads), there is	
	cropland, grassland, and savannah.	

#### Part 2. Habitat Loss in the Amazon

In the bottom left of the map Amazonia: The Human Impact, you will see a smaller map titled Altered Landscape. Use this map and keys to answer the questions below.

- 1. What parts of the Amazon rain forest are experiencing the most habitat loss due to fires?
  Most habitat loss due to fires is occurring in the south/southeastern region of the Amazon Basin in Brazil. There is also a patch in Colombia and another one in northern Brazil that have a high number of fires per square mile.
- 2. What parts of the Amazon rain forest are experiencing the most habitat loss due to deforestation? A similar trend to the habitat loss due to fires can be observed with deforestation. The south/southeastern region of the Amazon Basin in Brazil has a high density of deforestation along with patches at the northwestern tip of Colombia and the northern part of Brazil. Peru also has some patches of deforestation. Heavy deforestation also seems to be occurring around the eastern part of the Amazon River in Brazil.



3. Why do you think habitat loss due to fires and deforestation is occurring in these areas?				
Answers will vary, but students should see a pattern between human activity and habitat loss.				
Where cities are located and roads are constructed, there is a lot of habitat loss. Rivers also				
provide access to deeper parts of the forest. Where people can access resources, habitat loss is				
occurring.				
4. What are the implications of habitat loss in these areas and what might this mean for the future of the forest? Answers will vary, but students should notice that habitat loss is currently				
occurring where people have access to the forest (by water, roads, or the edges near				
cities). As the routes of access get deeper into the forest, so will the habitat destruction.				
Eventually, habitat loss could reach all parts of the forest.				
Part 3. Indigenous Territories in the Amazon				
In the top right of the map Amazonia: The Human Impact there is a smaller map of Managed Areas. Identify the key for indigenous territories and use the map to answer the questions below.				
1. How many indigenous territories are in Amazonia? There are 2,467 indigenous territories in				
_Amazonia.				
2. What parts of the Amazon Basin have a lot of indigenous territories?				
territories in northern, central, and western Brazil and the border of Brazil and Colombia. The				
border of Brazil and Peru has a high density of isolated groups.				
3. Where are there few indigenous territories in the Amazon Basin? There are few indigenous				
territories in the south/southestern region of the Amazon Basin in Brazil.				
in the state of th				



4. Why do you think indigenous territories are located in the places they are in the
Amazon Basin? They seem to be located close to tributaries of the Amazon River and within
high-density evergreen forests, which suggests they depend on the water in addition to the
forest to survive. They are not close to urban centers or areas of high habitat loss.
5. What might the implications of habitat loss be for indigenous territories?  If indigenous people
depend on the forest for survival, then they will have to relocate deeper into the forest to
maintain that lifestyle.
Part 4. Human Activity in the Amazon  Use all the map keys and maps from the previous sections to answer the questions below.  1. Study the roads throughout the Amazon rain forest. Where are most of the roads located on the map? The roads are located around the perimeter of the Basin, with a high density of roads in
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A map caption indicates that 95% of all deforestation has occurred within 3.4 miles of a road.

3. Is there a relationship between habitat loss and roads? If so, what is the relationship?

4. Is there a relationship between land cover and roads? If so, what is the relationship?		
	Yes. The map shows an obvious relationship of less high density evergreen forest in areas	
	where road density is high.	
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5. What does the following statement mean? The first road through a natural habitat can mark to beginning of the end. This suggests that once a road is created, it provides access to place.	
that had previously been untouched by human activity. The road allows people to collect	
resources that had been unavailable to them. As soon as a road is laid, trees will come	
down, resources will be excavated, and the ecosystem changes.	

#### Part 5. Considering the Impact of a Railroad in the Amazon

Look at the area around the proposed transcontinental railroad. Brainstorm potential effects if the railroad is to be constructed. Complete the chart to consider various implications.

	What does this look like now?	What might this look like if the railroad is built?
Land Cover	Answers will vary.	Answers will vary.
Habitat Loss (due to fires and deforestation)	Answers will vary.	Answers will vary·
Indigenous Territories	Answers will vary.	Answers will vary.

