

## Compare and Contrast – Answer Sheet

Chesapeake Bay		Puget Sound
	Alike?	
	Both are large estuaries, where the river meets the sea	
	Different?	
	1. Category of Differences	
East Coast	Location	West Coast
	2. Category of Differences	
Shallow bowl <sup>1</sup>	General Shape	Deep trough <sup>2</sup>
	3. Category of Differences	
21 feet <sup>3</sup> (6.4 meters)	Average depth of water	Average depth 70 meters <sup>4</sup>
	4. Category of Differences	
11,600 miles of shoreline <sup>5</sup>	Miles of shoreline	2,500 miles of shoreline <sup>6</sup>
	5. Category of Differences	
76 F <sup>7</sup>	Water temperature (avg)	51 F <sup>8</sup>
	6. Category of Differences	
334 million lbs per year <sup>9</sup>	Nitrogen load	Largest source of nitrogen is from the Pacific Ocean inflow <sup>10</sup> , human sources include septic systems and

<sup>1</sup> "Facts & Figures - Chesapeake Bay Program." [General shape of the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>2</sup> "Puget Sound's physical environment | Encyclopedia of Puget Sound." 6 Feb. 2017, [General shape of Puget Sound](#). Accessed 13 Aug. 2017.

<sup>3</sup> "Facts & Figures - Chesapeake Bay Program." [Average depth of water in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>4</sup> "Puget Sound's physical environment | Encyclopedia of Puget Sound." 6 Feb. 2017, [Average depth of water in Puget Sound](#). Accessed 13 Aug. 2017.

<sup>5</sup> "Chesapeake Bay Facts and Figures | Maryland Sea Grant." [Number of miles of shoreline in the Chesapeake Bay](#). Accessed 15 Aug. 2017.

<sup>6</sup> "Puget Sound Starts Here | Facts." [Miles of shoreline in Puget Sound](#). Accessed 15 Aug. 2017.

<sup>7</sup> "Water temperatures in Chesapeake Bay." [Average water temperature in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>8</sup> "Ocean Water Temperatures for Washington - Current Results." [Average water temperature in Puget Sound](#). Accessed 13 Aug. 2017.

<sup>9</sup> "Pollution - Chesapeake Bay Program." [Nitrogen load in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>10</sup> "Sources and Pathways - Nitrogen in Puget Sound- Environmental ...." [Where the main nitrogen load into Puget Sound is from](#). Accessed 15 Aug. 2017.

Chesapeake Bay		Puget Sound
		wastewater treatment plants <sup>11</sup> , the total load from human sources is 46,000 kg/d (kilograms per day) <sup>12</sup> (= to 37 million lbs per year)
	7. Category of Differences	
Blue crab <sup>13</sup> oysters <sup>14</sup> Striped bass <sup>15</sup>	Typical aquatic animals present	Salmon, clams, oysters, and orca <sup>16</sup>
	8. Category of Differences	
Excess nutrients <sup>17</sup> Sedimentation <sup>1718</sup>	Top pollution issues	Toxic chemicals <sup>19</sup> Stormwater runoff <sup>20</sup>
	9. Optional Geological Formation	
Impact crater and erosion from the Appalachian Mountains filling in with sedimentation <sup>21</sup>		Formed by glacier <sup>22</sup>

<sup>11</sup> "Natural Sources of Nitrogen | Sources and Pathways | Environmental ...." [Human causes of nitrogen load into Puget Sound](#). Accessed 15 Aug. 2017.

<sup>12</sup> "Natural Sources of Nitrogen | Sources and Pathways | Environmental ...." [Total load of nitrogen into Puget Sound from human sources](#). Accessed 15 Aug. 2017.

<sup>13</sup> "Blue Crabs - Chesapeake Bay Program." [Information about blue crabs found in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>14</sup> "Oysters - Chesapeake Bay Program." [Information about Oyster found in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>15</sup> "Striped Bass - Chesapeake Bay Program." [Information about striped bass found in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>16</sup> "Puget Sound - National Wildlife Federation." [Animals found in Puget Sound](#). Accessed 15 Aug. 2017.

<sup>17</sup> "Learn the Issues - Chesapeake Bay Program." [Top pollution issues in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>18</sup> "Learn the Issues - Chesapeake Bay Program." [Top pollution issues in the Chesapeake Bay](#). Accessed 10 Aug. 2017.

<sup>19</sup> "Overview: Threats | Saving Puget Sound | Washington State ...." [Top pollution issues in the Puget Sound](#). Accessed 15 Aug. 2017.

<sup>20</sup> "Overview: Threats | Saving Puget Sound | Washington State ...." [Top pollution issues in the Puget Sound](#). Accessed 15 Aug. 2017.

<sup>21</sup> "The Chesapeake Bay Bolide Impact: A New View of Coastal Plain ...." [Geological formation of the Chesapeake Bay](#). Accessed 15 Aug. 2017.

<sup>22</sup> "Puget Sound and Coastal Geology | WA - DNR." [Geological formation of Puget Sound](#). Accessed 13 Aug. 2017.