







Name:			

## **Bill Nye the Science Guy: Respiration**

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1.	In your upper body there is a strong muscle called the	ne			
2.	When you inhale, your diaphragm goes	and your lungs			
3.	When your breath in, your body gets	_ from the air.			
4.	is the same chemical that makes candles burn and iron				
	rust.				
5.	We combine the oxygen with our to	get the energy we need to live.			
6.	Your are full of tiny little passageways	like sponges.			
7.	These allow yo	u to take in a lot oxygen with			
	each breath.				
8.	Your lungs have as much surface area as a	·			
9.	Surface area is how something is.				
10.	Your lungs are full of tiny passages (sacs) called				
11.	Your lung is bigger than your				
12.	Your right lung is divided into parts, and	your left lung is divided into			
	parts.				
13.	Why is your left lung smaller than your right lung? _				
14.	Accumulation of cause	s pain in our muscles when			
	you are working "at a level more than your lungs car	ı supply".			

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15.	Се	llular	occurs when o	ur cells	s combine chemicals in	
	foo	od with oxygen to s	store energy in a chemical calle	ed	(adenosine	
	trip	phosphate).				
16.	Yo	ur body uses	as a sort of		<del>-</del>	
۱7.	Yo	ur body	energy and l	ater.		
18.	Wh	nen you breathe in	, your diaphragm			
19.	Wh		you relax your diaphragm? _			
20.		e have slime inside	e our nose and lungs called		, which traps	
		and	and keeps it from _			_•
21.	Cig	garettes put	and	i	into your lungs.	
22.	Ev	ery cell in your boo	dy does			_•
23.	Hu	mans	_ breathe underwater without s	special (	equipment, but fish can	
	get	t dissolved	from water using the	eir	·	
24.			goes <i>out</i> of	fish	into the water.	
25.	Ev	ery time you breat	he in, you take in		molecules of air!	
Re	vie	w				
1	1.	What muscle caus	ses our lungs to fill up with air?	?		_
2	2.	What two materia	ls combine to produce energy	in respi	iration?	
			_ and			









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3.	What is the name of the tiny air sacs in the lungs?
4.	Which lung is smaller? Why?
5.	How does a smoker's lung look different from a healthy lung?
	and
6.	How can you keep your muscles and lungs healthy?
7.	What causes the pain in your legs if you exercise more than your lungs can
	supply?
8.	What is the job of ATP (adenosine triphosphate) in your cells?
9.	Why doesn't most dust and smoke get into our lungs?
10.	What harmful substance from cigarettes can get into a person's lungs?
11.	How is respiration in fish the same as in humans?
12.	How is respiration in fish different than in humans?
13.	Unscramble these words to write the equation for <b>cellular respiration</b> .
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