

## **Camax**

BREATHING & LUNG HEALTH

#### **INTRODUCTION**



O<sub>2</sub>max is a digital learning program aimed at improving our 8 yr – 12 yr olds understanding of their respiratory system. It has been developed to maximise learning through interactive, progressive learning concepts.

O<sub>2</sub>max can be used via our Online platform or it can be delivered via a toolkit that enables offline access.

**ONLINE:** Teachers, Nurses, Parents, Social Service facilitators can use the online portal for students and children to play and learn from, at the same time they can monitor students' progress. The resource is FREE and accessible from any device that can connect to the internet. Good internet speed is recommended to ensure the video content plays well.

To connect to O<sub>2</sub>max visit <a href="https://www.o2max.co.nz">www.o2max.co.nz</a> and create an account, or just use your Google or Microsoft accounts to login.

**OFFLINE**: Teachers, Nurses, Parents, Social Service facilitators can use the offline version for students and children to play and learn from. The resource is FREE and accessible from the Asthma NZ website under the O2MAX tab. The questions are printable and there is a section that links to all the learning videos. Access to a projector for these videos would be needed to be able to answer the questions. Qualified teacher or health professional may also teach and deliver the lessons in person without the need of videos.

The resource has 8 quests or levels. Each quest is made up of video lessons and 10 questions. Players/students earn  $O_2$  (oxygen) for correct answers and this is totalled up through the game and learning resource. It is recommended that students and players do at least two quests at a time. All 8 quests at one time may take a while and may reduce the amount of knowledge retained.

There is a dashboard for teachers and parents to use that allows students and children's progress of each quest to be monitored.

#### QUEST ONE



### PŪKAHUKAHU Ora Healthy Lungs

1. Do you know where your lungs are in your body?

Circle where you think they are...

In my chest

In my tummy

Behind my ribs

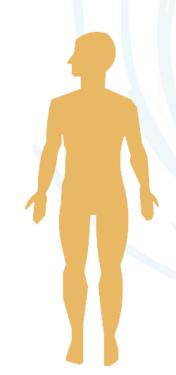
Don't know

2. Draw an arrow to where the organs should go





























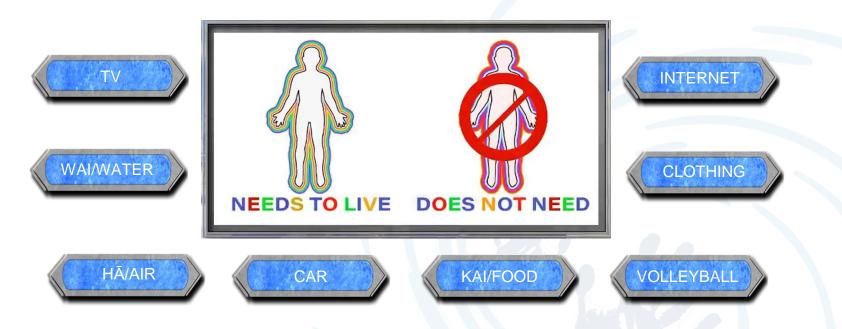








#### 4. Draw a line from each question to the correct answer

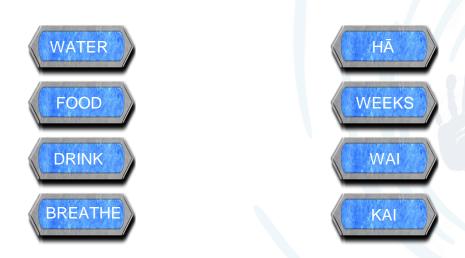


- 5. How long can you live without kai/food? (Circle the correct answer)
- 6. How long can you live without wai/water? (Circle the correct answer)
- 7. How long can you live without hā/air? (Circle the correct answer)



8. If petrol is the fuel that keeps a car going, what fuel must humans have to live?

9. Draw a line to the Te Reo Māori word with the "need to live" English terms?



10. When you breathe in, your lungs get bigger and your puku (tummy) pushes out?





#### QUEST TWO

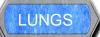


# PÜKAHUKAHU Ora Healthy Lungs ADVANCED

1. What do we breathe in? (Circle)

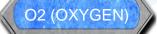








2. What do we breathe out? (Circle)



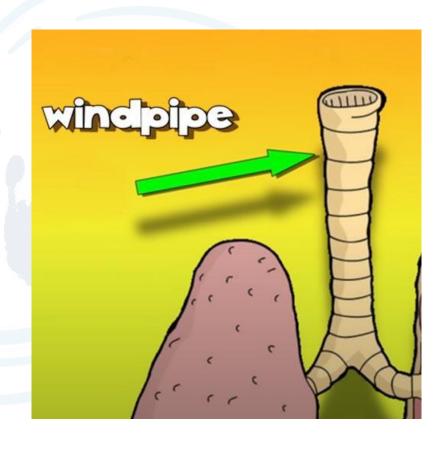
CO2 (CARBON DIOXIDE)





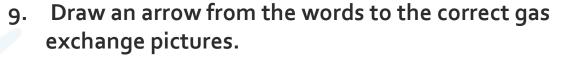
3. Circle the correct medical term for windpipe?

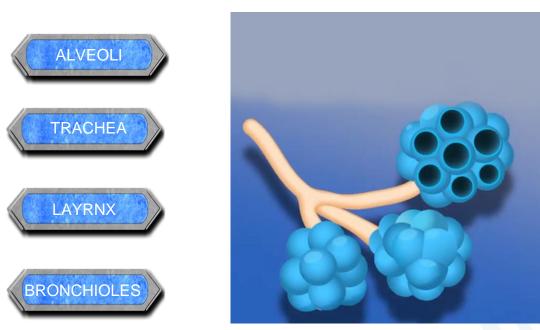




4. Circle the medical term for the things inside your lungs? 5. Draw an arrow to where the organs should go **TREES PIPES** BRONCHIOLES LUNGS

6. The trachea splits into two what? BRONCHI BRAINS **HEARTS** HANDS Draw a circle around the correct medical name of the parts in the picture.









Write the name of the part of the lungs that helps gas exchange when we breathe

**OXYGEN** 

10. Are you able to make your puku (tummy) push out when you breathe in?



CO<sub>2</sub>



#### QUEST THREE

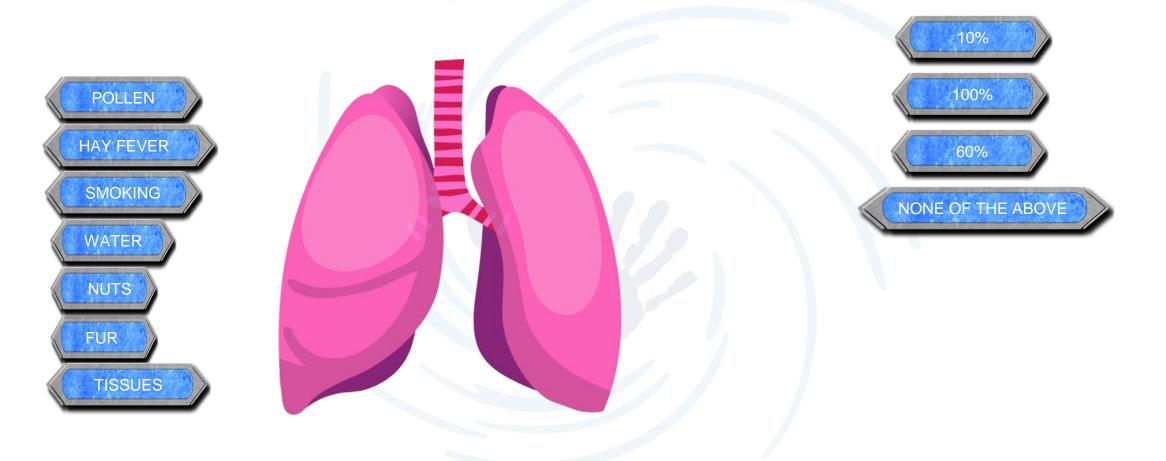


## ALLERGIES & TRIGGERS

1. Circle all the triggers/allergens you can see in this picture 2. Name something you or a friend is allergic to:

4. Draw a line from the four triggers featured in the video lesson onto the lungs?

5. What % of asthma is triggered by an allergy?



6. Write the name of this trigger in this photo?



7. We may not always be aware of what the trigger is. For example dog fur on someone else's jacket. Write another example you can think of?

3. 1.	Name three ways you can reduce trigger	10. When you breathe in, your lungs get bigger and your puku (tummy) pushes out?		
2.			TRUI	FALSE
3.		4//=		
9.	Circle 4 things <u>YOU</u> can do to reduce trig	gers in your home.		5 8 8
	VACUUM REGULARLY	STOP COLD AIR	R COMING IN	
	KEEP YOUR ROOM CLEAN	OPEN YOUR CURTAIN	S DURING THE DAY	A Bh
	LEAVE YOUR WET SHOES OUTSIDE	MOVE BED AWAY	FROM WINDOW	<b>S</b>
	DON'T LEAVE FOOD SCRAPS IN YOUR SCHOOLBAG	USE FAN WHEN	SHOWERING	

### QUEST FOUR



# ALLERGIES & TRIGGERS ADVANCED

1. What is the mission of our immune system? What are the foreign invaders called? MAKE US SICK **ARMIES** PROTECT US FROM GERMS AND DISEASES **INVADERS** MAKE US HUNGRY **ALIENS ANTIGENS** GIVE US ENERGY 3. Select all of the invaders you heard in the video ALLERGENS SNOT VIRUSES AND BACTERIA WATER GERMS AND FUNGUS

4. Circle 4 things YOU can do to reduce triggers in your home.



- 5. What is the missing word in this sentence? "When we eat food, it gets broken into \_\_\_\_\_ pieces?
- 6. What are the cells called that are ready to catch the allergen invaders? Circle correct answer



7. Write one of the common foods mentioned in the video that are allergen invaders?

9. Peanuts can be found in biscuits, cakes, cereals, chocolate and oils?





8. What should you do if you see someone having breathing problems, swollen face or throat, skin rash, sick or dizzy?

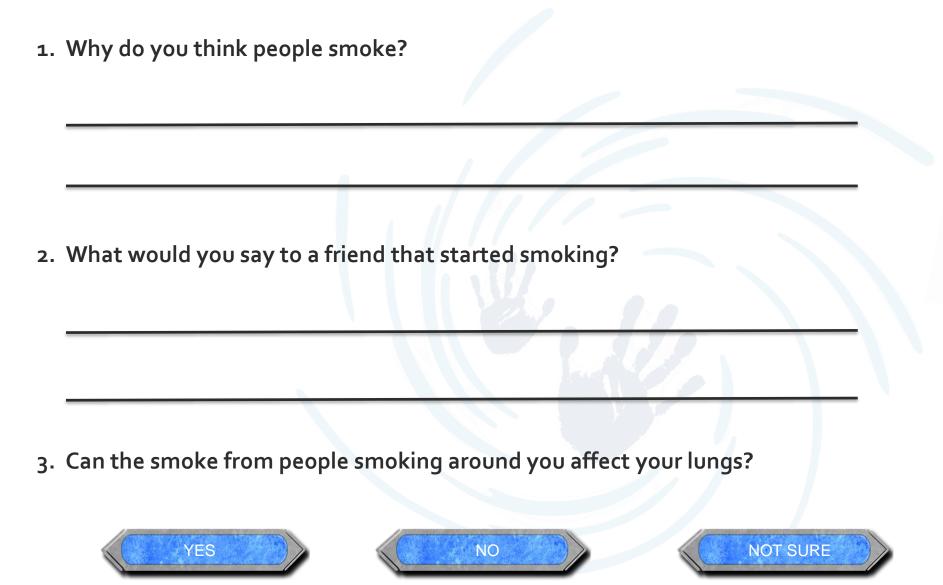


10. Write down the symptoms a friend would have if they were having an allergic reaction?

### QUEST FIVE



# THAT DIRTY WORD.... SMOKING





4. How many chemicals and poisons are there in a cigarette?



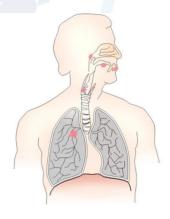
6. Does smoking affect our ability to smell?



5. Circle the picture of what part of the body does TAR affect first?







7. Write what chemical makes smoking addictive?

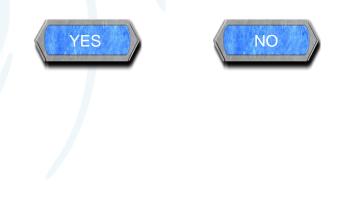
8. Quitting smoking doesn't benefit the body because the damage is already done.



9. Draw a line to the matching words.



10. When you breathe in can you feel your puku (tummy) pushing out?



#### QUEST SIX



### SMOKING ADVANCED



4. Circle the picture of what the man said smoking will impact.







5. What did you like about the way he responded?

6. How do you think smoking will affect your breathing over time?





8. What would you say to a friend to put them off smoking?



9. Have you been taught about the dangers of smoking at school?









#### QUEST SEVEN



## UNDERSTANDING ASTHMA

#### **Quick Revision**

1. How many chemicals and poisons are there in a cigarette?



2. Draw an arrow to where the organs are located in your body



3. If petrol is the fuel that keeps a car going, what fuel must humans have to live?

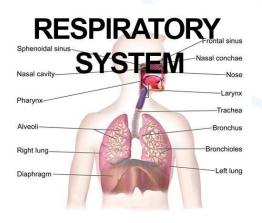
4. Choose two of the below options that are symptoms of a Asthma attack?

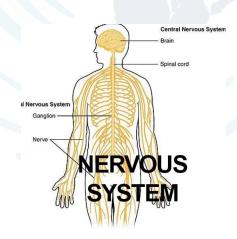


6. What areas of the Respiratory System does Asthma particularly affect?



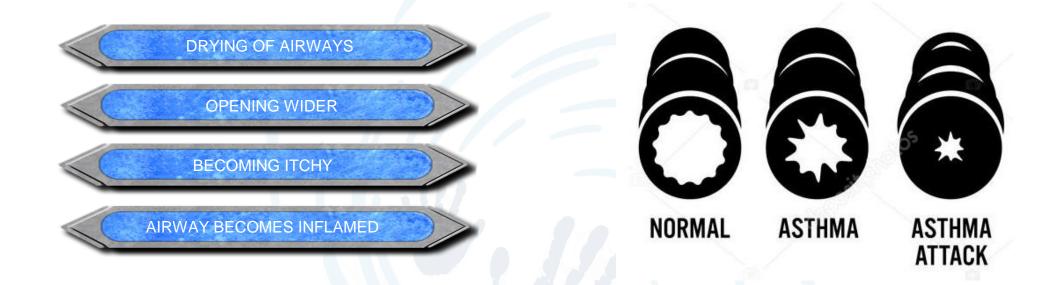
5. Circle the picture of the system in the body that is affected by Asthma.







7. Circle what happens to a person with asthma' airway when they are exposed to a trigger.



8. Is it true that during an asthma attack it can be harder to breathe out than breathe in?







9. Can a person having an asthma attack make a whistling sound when breathing out?













### QUEST EIGHT



# UNDERSTANDING ASTHMA ADVANCED

1. Finish this sentence by saying the word out loud - Asthma affects the airways by reducing the flow of

2. Circle at least three things to you can look out for, to recognise asthma in yourself, a friend or whānau member.



#### 3 & 4. Draw a line to place the steps in the correct order



5. Do you feel more confident to help somebody having an Asthma attack?



6. Do you think you might have Asthma?



7. Does anyone you know have Asthma?







8. Explain what you would do no if you saw someone having an Asthma attack:

9. How much more knowledgeable are you about Asthma now?









10. When you breathe in do your lungs get bigger and your puku (tummy) push out?



