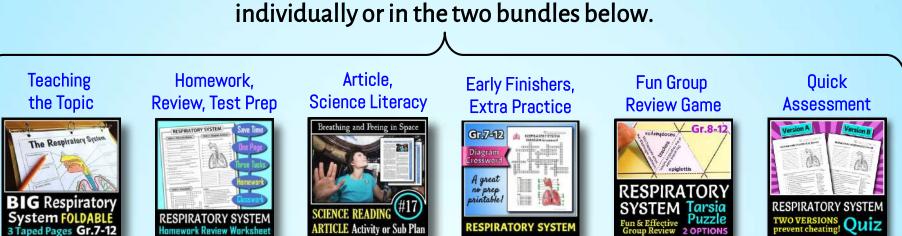
ARTICLE Activity or Sub Plan

These **6 RESOURCES** can be purchased



RESPIRATORY SYSTEM

RESPIRATORY SYSTEM BUNDLE for **25% OFF**.

RESPIRATORY SYSTEM

Homework Review Workshee



ANATOMY MEGA BUNDLE for **40% OFF**.

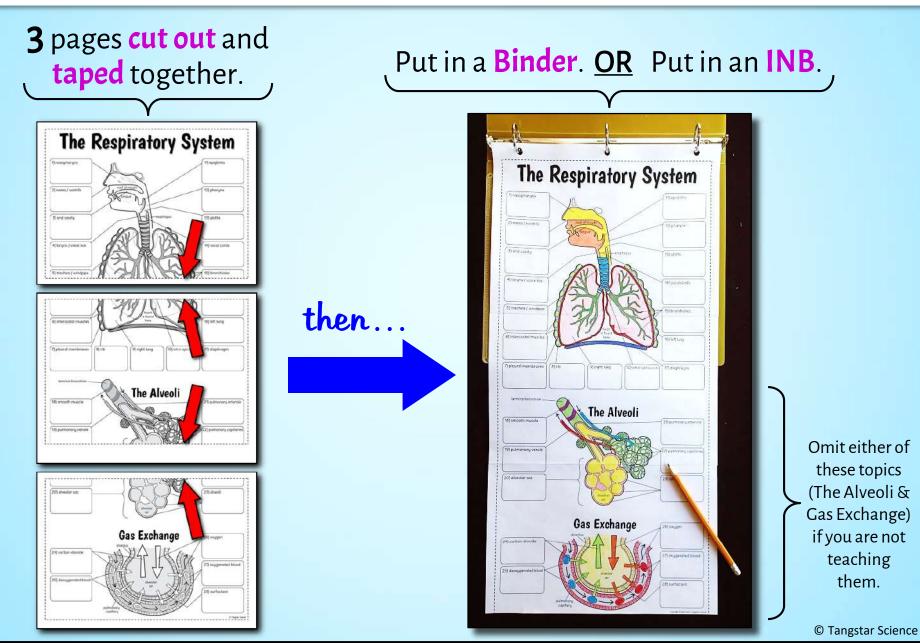
ffective Review 2 OPTION



© Tangstar Science

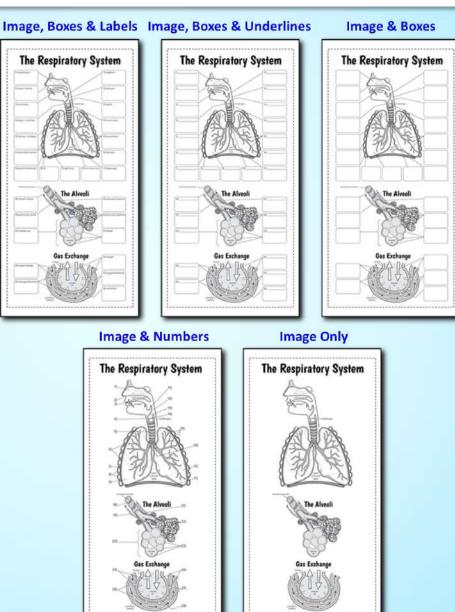
TWO VERSIONS prevent cheating! Quiz

RESOURCE 1: TEACHING THE TOPIC - Big Respiratory System Foldable

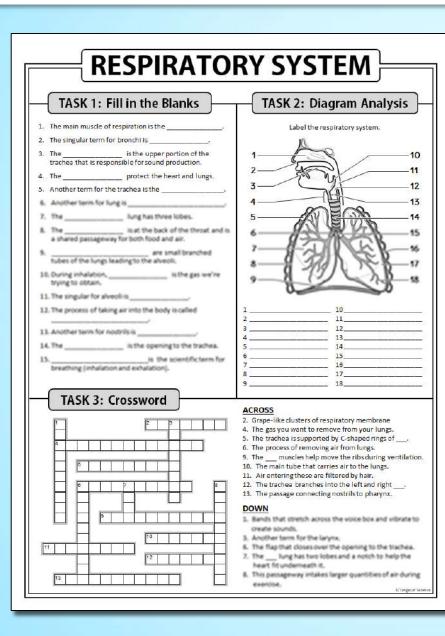


RESOURCE 1: TEACHING THE TOPIC - Big Respiratory System Foldable

There are many foldable options for differentiation and full answer keys are provided for all options.



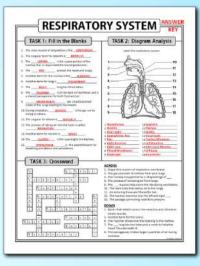
RESOURCE 2: INDIVIDUAL REVIEW - Respiratory System Review Worksheet / Test Prep



CONCEPTS

- Nostrils
- Nasopharynx
- Oral cavity
- Pharynx
- Epiglottis
- Glottis
- Larynx
- Voice box
- Trachea
- Windpipe
- Cartilage rings
- Vocal cords
- L. & R. Bronchus, Bronchi
- Bronchioles
- Alveoli, Alveolus
- L. & R. Lungs
- Pleural membranes
- Ribs
- Intercostal muscles
- Diaphragm
- Inhalation
- Exhalation
- Ventilation
- Oxygen
- Carbon dioxide
- Pulmonary

ANSWER KEY



3 TASKS

- Assign the whole page, or break it up into in class tasks, exit tickets and homework tasks.
- The variety of different tasks helps students review in different ways and holds their interest.

RESOURCE 3: EXTRA REINFORCEMENT - Respiratory System Diagram Crossword

FULLY EDITABLE WORD DOC INCLUDED

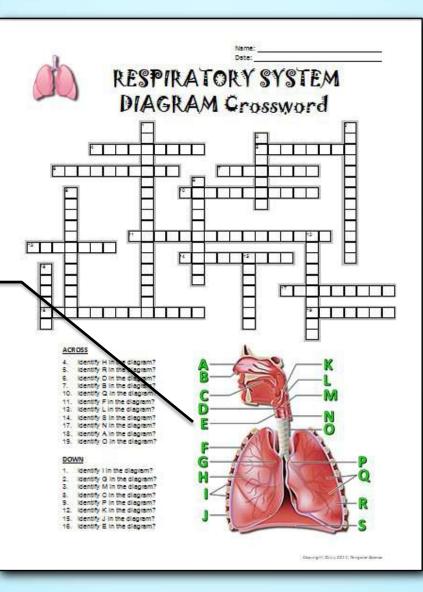
 Reword questions according to your classroom needs.

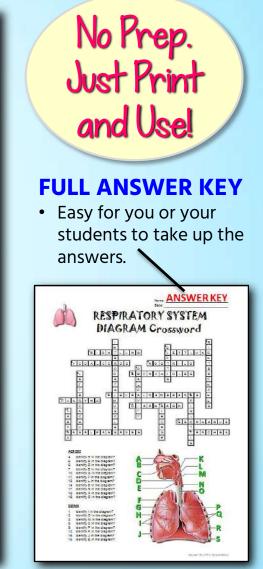
ONE PAGE

 For easy and economical printing.

CLEAR DIAGRAMS

- Helps students practice labeling biological diagrams. Diagram crosswords are a fun twist on the usual labeling worksheet.
- BONUS ACTIVITY: After completing the crossword, have students cut out the diagram, paste it in their notes and then label the structures for extra reinforcement.





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RESOURCE 4: ARTICLE/SCIENCE LITERACY - "Breathing and Peeing in Space"

astronomy
 technology
 chemistry

Science

Literacy Warn

Zoom in to read. **BREATHING AND PEEING IN SPACE** 17

(1) Supporting human life inside of a spacecraft is challenging. A spacecraft is small and air and food need to be provided, waste needs to be removed and everything must stay clean. All of this is made more challenging due to the zero gravity or microgravity experienced within different spacecrafts.

(2) Earth's air is made up of mostly 78% nitrogen gas and 21% oxygen gas. In a space station, there isn't a lot of room to store a large amount of air. The oxygen is guickly used up by the astronauts if no further oxygen is supplied. The International Space Station (ISS) was put into orbit around the Earth in 1998 and was designed for long-term missions. The original oxygen on board has long disappeared. In space crafts, there needs to be ways to generate oxygen and three main methods are used: 1) pressurized oxygen air tanks, 2) oxygen generators using electrolysis and 3) solid fuel oxygen generators (SFOG).

(3) The pressurized oxygen air tanks on board the ISS are constantly resupplied with oxygen when supply ships arrive from Earth. These supply ships also pump nitrogen gas into other tanks. The space station's atmosphere control system mixes the two gases together to imitate the mixture of air found on Earth. It then circulates this air mixture through the spacecraft.

(4) Oxygen generators can also use the process of electrolysis to make oxygen. During electrolysis, water molecules are broken down into oxygen gas and hydrogen gas. See the



This water, along with the water reclaimed from the astronauts' urine, can be used for electrolysis. The electrolysis of water is the main way that oxygen is provided on a spacecraft.

(5) The solid fuel oxygen generator (SFOG) is the backup method for making oxygen in case of emergencies. SFOG contains two powders: sodium chlorate (NaClO₃) powder and iron (Fe) powder. A chemical reaction happens between these two powders to form water. Take at look at the equation for this reaction:

NaClO₃ + Fe → 3O₂ + NaCl + FeO

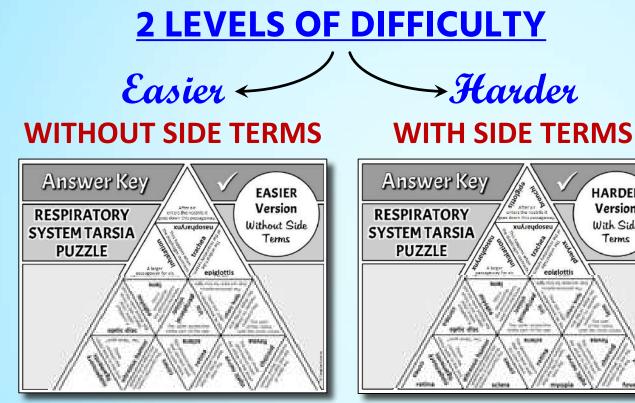
In addition to producing oxygen gas, salt (NaCl) and iron oxide (FeO) are also produced. Every kilogram of the SFOG powdered mixture can produce enough oxygen for 6.5 hours of breathing.

(6) Not only is oxygen strictly controlled on a spacecraft, so is waste production and waste storage. On Earth, water easily pours and

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RESOURCE 5: FUN GROUP REVIEW - Respiratory System Tarsia Puzzle Game



Without side terms it is easier to solve the puzzle because it gives students clues to create the border of the puzzle.

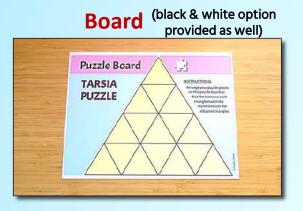
HARDER Version With Side Terms

TERMS

- Nostrils
- Nasopharynx
- Oral cavity
- Pharynx
- **Epiglottis**
- Glottis
- Larynx
- Trachea
- Vocal cords
- Bronchi
- **Bronchioles**
- Alveoli
- Lungs
- Ribs
- Intercostal muscles
- Diaphragm
- Inhalation
- Exhalation

RESOURCE 5: FUN GROUP REVIEW - Respiratory System Tarsia Puzzle Game

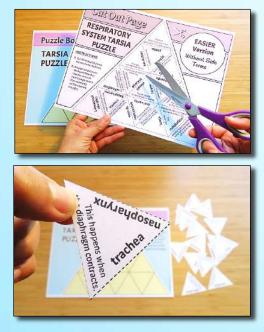
STEP 1: Print out puzzle board and puzzle pieces sheet.



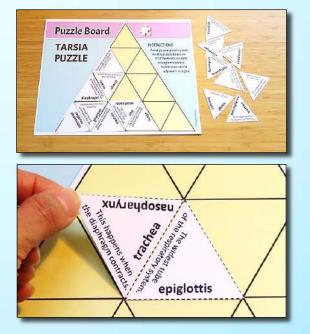
Puzzle Pieces Sheet



STEP 2: Students cut out puzzle pieces.



STEP 3: Students match puzzle pieces.



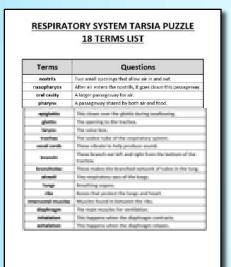
© Tangstar Science

RESOURCE 5: FUN GROUP REVIEW - Respiratory System Tarsia Puzzle Game

USEFUL FEATURES OF THIS RESOURCE

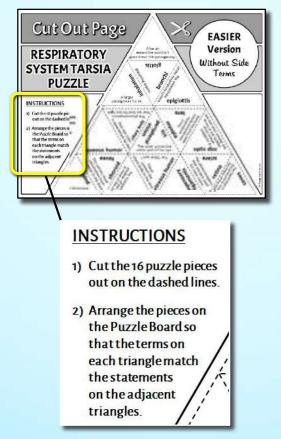
A List of the Terms is Provided

• This list quickly tells you what terms and statements are used in the puzzle.



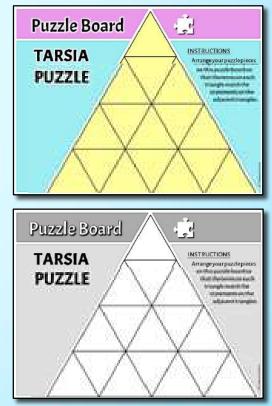
Easy Instructions for Student Use

 Instructions are conveniently printed on the "Cut Out Page" as well as on the "Puzzle Board" to remind students of what to do for this activity.



Reusable Puzzle Boards

 Print out one class set of the boards on card stock, then laminate or use page protectors. Choose between color or black and white. Once prepared, these boards can be used for other Tangstar Science Tarsia Puzzles.



© Tangstar Science

RESOURCE 6: ASSESSMENT - Respiratory System Quiz with Two Versions

TWO VERSIONS PREVENT CHEATING

- Version A and B contain the same questions but in mixed order.
- This allows you to alternate them between adjacent neighbours to deter cheating.

IT'S EDITABLE

 Allows you to customize, add or delete questions.

EASY PRINTING

 Single page quiz saves on printing, time and money.

25 MARKS, STRAIGHTFORWARD QUESTIONS

- 12 marks labelling a diagram.
- 13 marks matching questions.

DIAGRAM

 I drew the diagram myself in Adobe Illustrator so that it would be clear and accurate.

ANSWER KEY

RESPI

Association
 Association

• Makes marking quick and easy.

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Version B

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