

Crashing Particles Vocabulary

Overview:

Students review vocabulary associated with Unit 4: Crashing Particles.

Objectives:

The student will match the following terms to their definitions: Angstrom, atmosphere, buffer zone, dense, high-altitude oxygen, lower atmosphere, nitrogen, oxygen, spectrum, and upper atmosphere.

Materials:

- *Aurora Alive* multimedia video playlist
- STUDENT WORKSHEET: “Crashing Particles Word Search”

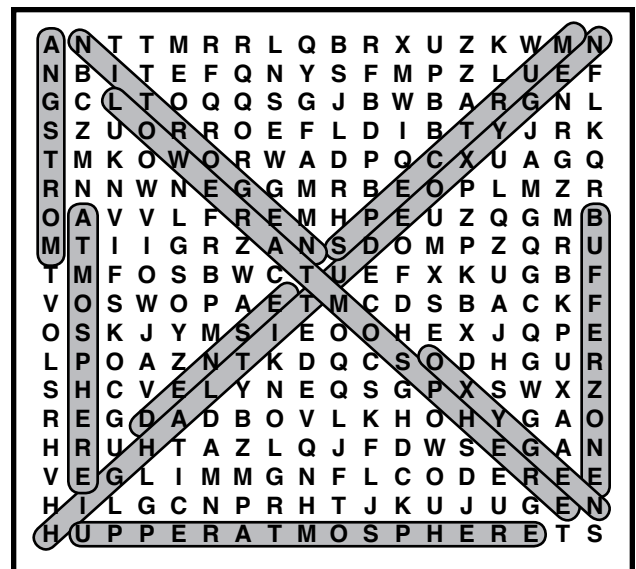
Activity Procedure:

Distribute the STUDENT WORKSHEET: “Crashing Particles Word Search.” Ask students to complete Part I by finding the words hidden in the puzzle. Then, ask them to complete Part II by writing the correct word (from the word search) in the blank before each definition. Allow students to review the video playlist to find the terms and their definitions.



Answers to Student Worksheet:

1. Angstrom
2. Atmosphere
3. Spectrum
4. Nitrogen
5. Dense
6. Oxygen
7. Buffer Zone
8. Upper Atmosphere
9. High Altitude Oxygen
10. Lower Atmosphere



Crashing Particles Word Search

Part I: Find the following words in the puzzle at right.

ANGSTROM
ATMOSPHERE
BUFFER ZONE
DENSE
HIGH ALTITUDE OXYGEN
LOWER ATMOSPHERE
NITROGEN
OXYGEN
SPECTRUM
UPPER ATMOSPHERE

A	N	T	T	M	R	R	L	Q	B	R	X	U	Z	K	W	M	N
N	B	I	T	E	F	Q	N	Y	S	F	M	P	Z	L	U	E	F
G	C	L	T	O	Q	Q	S	G	J	B	W	B	A	R	G	N	L
S	Z	U	O	R	R	O	E	F	L	D	I	B	T	Y	J	R	K
T	M	K	O	W	O	R	W	A	D	P	Q	C	X	U	A	G	Q
R	N	N	W	N	E	G	G	M	R	B	E	O	P	L	M	Z	R
O	A	V	V	L	F	R	E	M	H	P	E	U	Z	Q	G	M	B
M	T	I	I	G	R	Z	A	N	S	D	O	M	P	Z	Q	R	U
T	M	F	O	S	B	W	C	T	U	E	F	X	K	U	G	B	F
V	O	S	W	O	P	A	E	T	M	C	D	S	B	A	C	K	F
O	S	K	J	Y	M	S	I	E	O	O	H	E	X	J	Q	P	E
L	P	O	A	Z	N	T	K	D	Q	C	S	O	D	H	G	U	R
S	H	C	V	E	L	Y	N	E	Q	S	G	P	X	S	W	X	Z
R	E	G	D	A	D	B	O	V	L	K	H	O	H	Y	G	A	O
H	R	U	H	T	A	Z	L	Q	J	F	D	W	S	E	G	A	N
V	E	G	L	I	M	M	G	N	F	L	C	O	D	E	R	E	E
H	I	L	G	C	N	P	R	H	T	J	K	U	J	U	G	E	N
H	U	P	P	E	R	A	T	M	O	S	P	H	E	R	E	T	S

Part II: Use the words listed in the word search to fill in blanks below.

1. _____ This is the last name of a scientist who discovered that the sun's spectrum looks different than a rainbow.
2. _____ Earth's _____ is made up of a mixture of gases.
3. _____ A range of wavelengths that show different colors.
4. _____ A gas in Earth's atmosphere that creates the purple glow of the aurora.
5. _____ This word refers to how crowded or close particles are in space.
6. _____ A gas in Earth's atmosphere that creates the green color of the aurora.
7. _____ A neutral area between two areas that keeps the two areas apart.
8. _____ This area acts as a buffer zone between outer space and the life-sustaining gases near Earth's surface.
9. _____ A gas high in Earth's atmosphere that creates the red glow of the aurora.
10. _____ The gases in this part of the atmosphere allow people to breathe and make it possible for life to exist on Earth.