

# ENGLISH PLUS

WITH  
ANSWER  
KEY

## PRACTICE WORKSHEETS

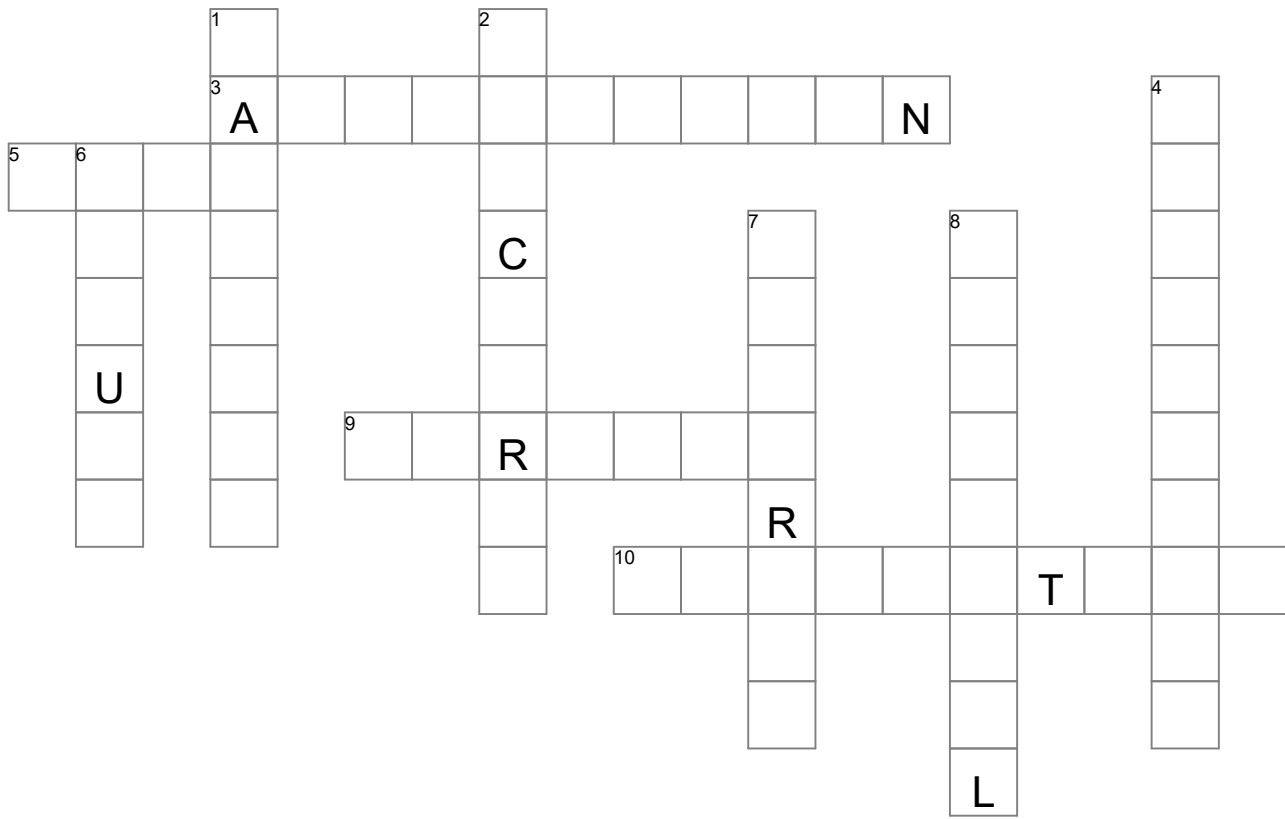


### WORD POWER

## THE ROCKET'S RED GLARE

# Word Power | The Rocket's Red Glare

1. *Using the Across and Down clues, write the correct words in the numbered grid below.*



## ACROSS

3. relevance, use, value, practice
5. outlet, opening, hole, split
9. guess, suppose, imagine, presume
10. change, passing, development, shift

## DOWN

1. shoot, pitch, plunge, toss
2. emission, flow, ooze, secretion
4. awkward, heavy, hefty, clumsy
6. immerse, bury, flood (out), plunge
7. influence, authority, pull
8. feasible, possible, sound, viable

**Choose the best option the completes the sentences below:**

2. \_\_\_ If you \_\_\_\_\_ your feelings, you express them forcefully.  
a. application b. discharge c. engulf d. cumbersome e. vent
3. \_\_\_ If a feeling or emotion \_\_\_\_\_s you, you are strongly affected by it.  
a. catapult b. vent c. surmise d. leverage e. engulf
4. \_\_\_ A \_\_\_\_\_ system or process is very complicated and inefficient.  
a. discharge b. cumbersome c. practical d. transition e. application
5. \_\_\_ A \_\_\_\_\_ is a device for shooting small stones. It is made of a Y-shaped stick with a piece of elastic tied between the two top parts.  
a. practical b. catapult c. surmise d. leverage e. engulf
6. \_\_\_ Leverage is the force that is applied to an object when something such as a lever is used.  
a. leverage b. transition c. vent d. cumbersome e. transition

7. \_\_\_ If someone \_\_\_\_\_s a gun, they fire it.  
a. engulf b. application c. practical d. discharge e. vent
8. \_\_\_ You describe people as \_\_\_\_\_ when they make sensible decisions and deal effectively with problems.  
a. practical b. leverage c. catapult d. surmise e. discharge
9. \_\_\_ If you say that a particular conclusion is \_\_\_\_\_, you mean that it is a guess based on the available evidence and you do not know for certain that it is true.  
a. leverage b. surmise c. discharge d. cumbersome e. transition
10. \_\_\_ An \_\_\_\_\_ for something such as a job or membership of an organization is a formal written request for it.  
a. practical b. application c. catapult d. surmise e. engulf
11. \_\_\_ To \_\_\_\_\_ from one state or activity to another means to move gradually from one to the other.  
a. surmise b. transition c. catapult d. application e. vent
12. **Find the hidden words. The words have been placed horizontally, vertically, or diagonally. When you locate a word, draw a circle around it.**

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

- |           |          |             |           |            |
|-----------|----------|-------------|-----------|------------|
| discharge | leverage | transition  | vent      | cumbersome |
| engulf    | catapult | application | practical | surmise    |

13. In each line of text below there is one word that has been misspelled. Circle the misspelled word and then write the correct spelling of the word on the line on the right side of the page.

**The Rockets Red Glare**

In the 17th century, Sir Isaac Newton published his Third Law: For every action there is an equal and opposite reaction. If you have ever rowed a boat across a quiet lake, you experienced Newton's law in action. The action of pushing the oars in one direction propelled the boat in the opposite direction. This simple rule of nature is the basis for the rockets that catapult both bombs and people into the air.

The first mention of rockets appeared in various Chinese writings of the 13th century. Several writers report rockets being used to drive off Mongol invaders. Why rockets were invented in China is anyone's guess. Some historians surmise that the high levels of sulfur and potassium nitrate in the soil may have been accidentally kicked into a campfire, resulting in an explosion. The transition from explosion to rocketry required an additional step. When this explosion is created in a hollow tube that is capped on one end, the force of the explosion is vented through a single opening. This "action" in one direction, moves the tube in an "equal and opposite" direction. The force of the discharge can be increased or decreased by widening or narrowing the opening. This principle can be demonstrated with a garden hose. The smaller the opening, the greater the force of the escaping water.

As with the 13th century Chinese, the first application of this technology in Europe was in weaponry. The ability to send balls of fire at a distant enemy offered a clear advantage in battle. The problem was accuracy. On land, the cannon provided greater leverage for an army because its aim was more precise and its performance more reliable. Moreover, the equipment required for launching rockets proved too cumbersome to move and set up under fire or in bad weather. However, it was at sea that the rocket proved itself to be a practical and effective weapon. The huge canvas sails and tarred hull of an enemy ship offered a perfect target. A single rocket could engulf a ship in flames in a matter of minutes.

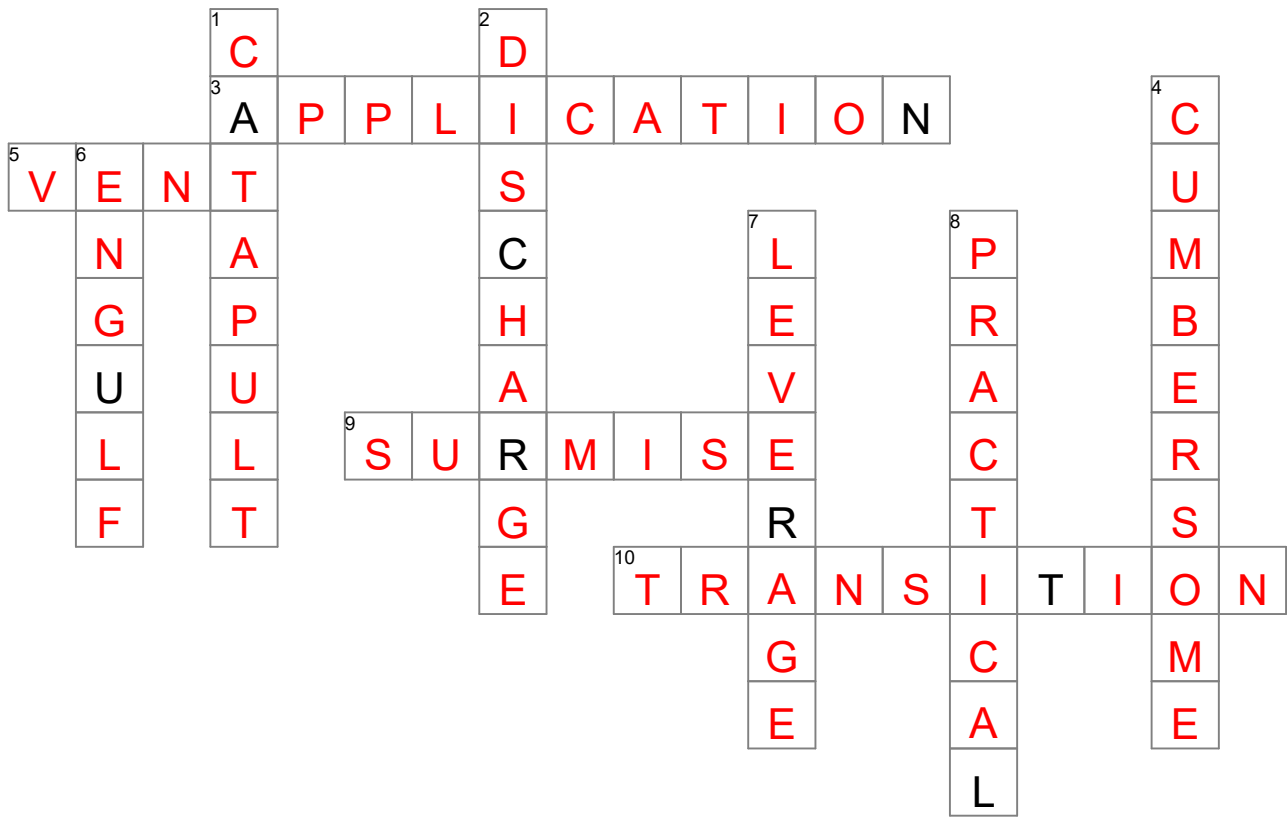
As the accuracy of rockets increased, they began to play a part in ground warfare. The V-1 and V-2 rockets developed by the Germans in World War II terrified London. Today's intercontinental missiles with their atomic warheads are some of the most feared weapons in history.

More recently, people have replaced warheads, and the rocket has become the preferred method of space travel.

- 1. \_\_\_\_\_
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- 34. \_\_\_\_\_
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- 36. \_\_\_\_\_
- 37. \_\_\_\_\_

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

discharge  
engulf

leverage  
catapult

transition  
application

vent  
practical

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More recently, people have replaced warheads, and the rocket **haz** **becom** the preferred method of space travel.

1. **Rocket's**

2. **century**

3. **is**

4. **across**

5. **action**

6. **the**

7. **into**

8. **various**

9. **being**

10. **Why**

11. **historians**

12. **in**

13. **explosion**

14. **step**

15. **the**

16. **one**

17. **equal**

18. **by**

19. **can**

20. **of**

21. **the**

22. **distant**

23. **was**

24. **the**

25. **aim**

26. **equipment**

27. **However**

28. **the**

29. **huge**

30. **target**

31. **minutes**

32. **accuracy**

33. **in**

34. **II**

35. **warheads**

36. **has**

37. **become**