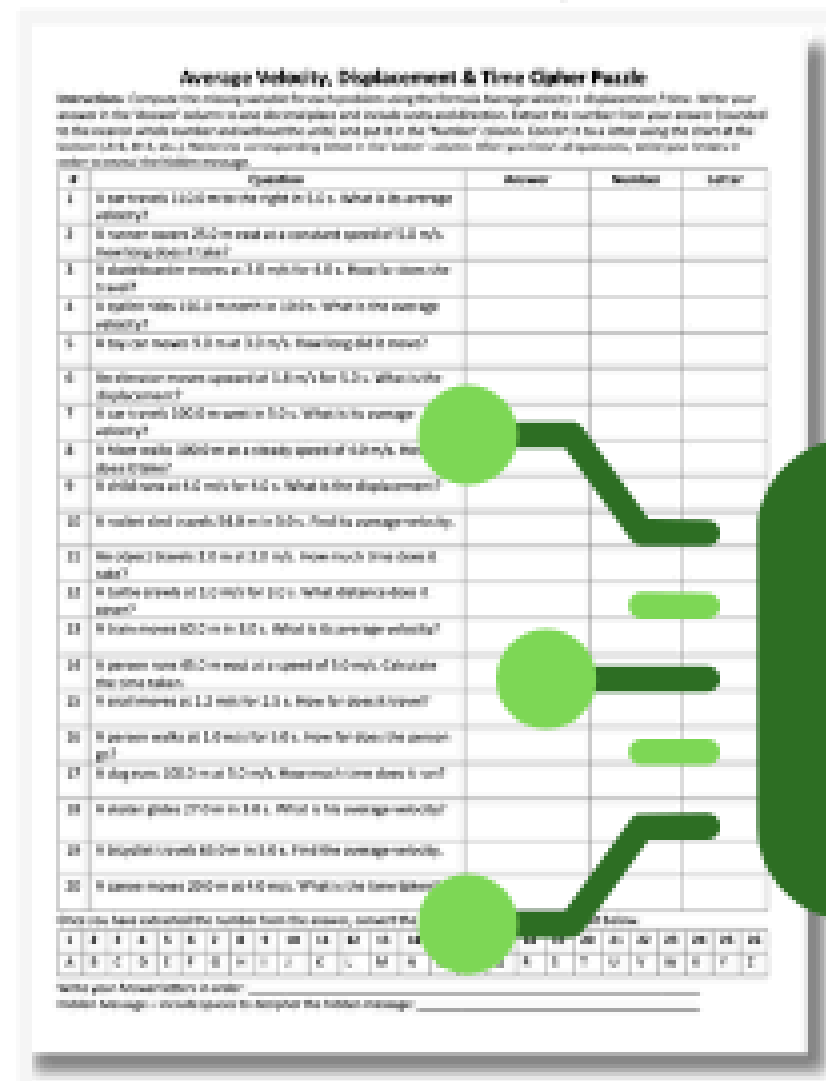


Average Velocity, Displacement & Time Cipher Puzzle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS

Students answer questions then use a simple number to letter cipher to reveal a hidden message.



#	Question	Answer	Number	Letter
1	A car travels 110.0 m to the right in 5.0 s. What is its average velocity?	22.0 m/s [Right]	22	V
2	A runner covers 25.0 m east at a constant speed of 5.0 m/s. How long does it take?	5.0 s	5	E

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z



NO PREP, MATERIALS, OR MARKING

SCROLL
to take a look inside!



HOW THESE ACTIVITIES HELP YOU

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Provides Built-In Assessments** - The activity lets students self-assess and lets you quickly check for understanding.
- **Perfect for:** Review, Practice, Homework, and more!

MULTIPLE QUESTION TYPES THAT CHECK FOR UNDERSTANDING

Example

#	Question	Answer	Number	Letter
1	A car travels 110.0 m to the right in 5.0 s. What is its average velocity?	22.0 m/s [Right]	22	V
2	A runner covers 25.0 m east at a constant speed of 5.0 m/s. How long does it take?	5.0 s	5	E

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

Full Teacher Answer Key



Average Velocity, Displacement & Time Cipher Puzzle – Answer Key

#	Correct Answer	Number Extracted	Letter
1	22.0 m/s [Right]	22	V
2	5.0 s	5	E
3	12.0 m	12	L
4	16.0 m/s [North]	16	P
5	3.0 s	3	C
6	9.0 m [upward]	9	I
7	20.0 m/s [West]	20	T
8	25.0 s	25	Y
9	16.0 m	16	P
10	18.0 m/s	18	R
11	1.0 s	1	A
12	3.0 m	3	C
13	20.0 m/s	20	T
14	9.0 s	9	I
15	3.0 m	3	C
16	5.0 m	5	E
17	20.0 s	20	T
18	6.0 m/s	6	F
19	18.0 m/s	18	R
20	5.0 s	5	E

Final Message: VELOCITYPRACTICETIME → VELOCITY PRACTICE TIME

Students Answer Questions to Reveal a Hidden Message.

What Will Your Students Learn?

SIMPLY DOWNLOAD AND
GIVE TO YOUR STUDENTS

Average Velocity, Displacement & Time Cipher Puzzle

Directions: Compute the missing variable for each problem using the formula $\text{Average velocity} = \text{displacement} / \text{time}$. Write your answer in the "Answer" column to one decimal place and include units and direction. Extract the number from your answer (rounded to the nearest whole number and without the units) and put it in the "Number" column. Convert this number using the chart at the bottom (A=1, B=2, etc.). Write the corresponding letter in the "Letter" column. After you finish all questions, write your letters in order to reveal the hidden message.

#	Question	Answer	Number	Letter
1	A car travels 150.0 m to the right in 5.0 s. What is its average velocity?			
2	A runner covers 25.0 m east at a constant speed of 5.0 m/s. How long does it take?			
3	A skateboarder moves at 3.0 m/s for 4.0 s. How far does she travel?			
4	A cyclist rides 150.0 m north in 10.0 s. What is the average velocity?			
5	A toy car moves 8.0 m at 3.0 m/s. How long did it move?			
6	An elevator moves upward at 1.8 m/s for 5.0 s. What is the displacement?			
7	A car travels 180.0 m north in 5.0 s. What is its average velocity?			
8	A fisher marks 200.0 m at a steady speed of 8.0 m/s. How long does it take?			
9	A child runs at 4			
10	A rocket shoots			
11	An object travels			
12	A turtle crawls a			
13	A train moves at			
14	A person runs at			
15	A small moves at			
16	A person walks			
17	A dog runs (left)			
18	A skater glides			
19	A bicyclist travels			
20	A canoe moves			

Once you have extracted
A B C D E
Write your Answer into
Hidden Message -> reveal

Final Message: VELOCITYPRACTICETIME -> VELOCITY PRACTICE TIME

- ✓ Full Answer Key
- ✓ No Prep, Just Print
- ✓ Perfect for

- Review
- Practice
- Additional work for early finishers

- How to calculate average velocity
- How to solve for displacement
- How to solve for time
- How to apply the formula average velocity = displacement / time
- How to include units and direction when appropriate
- How to connect physics calculations to clues and patterns in a puzzle format

NO PREP or Materials

- **Average Velocity, Displacement & Time Cipher Puzzle Worksheet**
- A student-friendly activity with 20 clues focused on calculating average velocity, displacement, and time using the formula $\text{average velocity} = \text{displacement} \div \text{time}$.
- **Clear Instructions**
 - Students solve each clue, extract the number from the answer, and convert it to a letter to decode a hidden message.
- **Reinforces:**
 - Average velocity
 - Displacement
 - Time calculations
 - Units and direction
 - Motion formula practice
- **Students use their answers to decode a hidden message**
- **Includes all correct answers and number-to-letter conversions**
- **No-Prep Resource**
 - Ready to print or assign digitally for review, practice, or sub plans.

What You Get

Students Use Their Answers to Reveal a Hidden Message

1. For each clue, write the answer in the 'Answer' column.
2. Convert the number to the letter using the chart.
3. Write the deciphered letter in the 'Letter' column.
4. Write your letters in order below the table to reveal the hidden message.

Average Velocity, Displacement & Time Cipher Puzzle

Instructions: Complete the missing variables for average velocity, displacement, and time. Write your answer in the 'Answer' column to one decimal place. Use the number from your answer (rounded to the nearest whole number and without the unit) to find the corresponding letter in the 'Number to Letter' chart. Convert the letter to a letter using the chart at the bottom. Write the letter in the 'Letter' column. Repeat for all clues. When you finish, write your letters in order to reveal the hidden message.

Clue	Answer	Number	Letter
1. A car travels 100.0 m in 10.0 s. What is its average velocity?			
2. A runner covers 10.0 m in 10.0 s. How long does it take?			
3. A car travels 100.0 m in 10.0 s. How long does it take?			
4. A car travels 100.0 m in 10.0 s. What is its average velocity?			
5. A car travels 100.0 m in 10.0 s. How long does it take?			
6. A car travels 100.0 m in 10.0 s. What is its average velocity?			
7. A car travels 100.0 m in 10.0 s. What is its average velocity?			
8. A car travels 100.0 m in 10.0 s. What is its average velocity?			
9. A car travels 100.0 m in 10.0 s. What is its average velocity?			
10. A car travels 100.0 m in 10.0 s. What is its average velocity?			
11. A car travels 100.0 m in 10.0 s. What is its average velocity?			
12. A car travels 100.0 m in 10.0 s. What is its average velocity?			
13. A car travels 100.0 m in 10.0 s. What is its average velocity?			
14. A car travels 100.0 m in 10.0 s. What is its average velocity?			
15. A car travels 100.0 m in 10.0 s. What is its average velocity?			
16. A car travels 100.0 m in 10.0 s. What is its average velocity?			
17. A car travels 100.0 m in 10.0 s. What is its average velocity?			
18. A car travels 100.0 m in 10.0 s. What is its average velocity?			
19. A car travels 100.0 m in 10.0 s. What is its average velocity?			
20. A car travels 100.0 m in 10.0 s. What is its average velocity?			

Average Velocity, Displacement & Time Cipher Puzzle – Answer Key

Clue	Correct Answer	Number Extracted	Letter
1	10.0 m/s	10	A
2	1.0 s	1	A
3	10.0 m	10	A
4	10.0 m/s	10	A
5	10.0 s	10	A
6	10.0 m (downward)	10	A
7	10.0 m/s	10	A
8	10.0 s	10	A
9	10.0 m	10	A
10	10.0 m/s	10	A
11	10.0 s	10	A
12	10.0 m	10	A
13	10.0 m/s	10	A
14	10.0 s	10	A
15	10.0 m	10	A
16	10.0 m/s	10	A
17	10.0 s	10	A
18	10.0 m	10	A
19	10.0 m/s	10	A
20	10.0 s	10	A

Final Message: CITYPRACTICE TIME → VELOCITY PRACTICE TIME

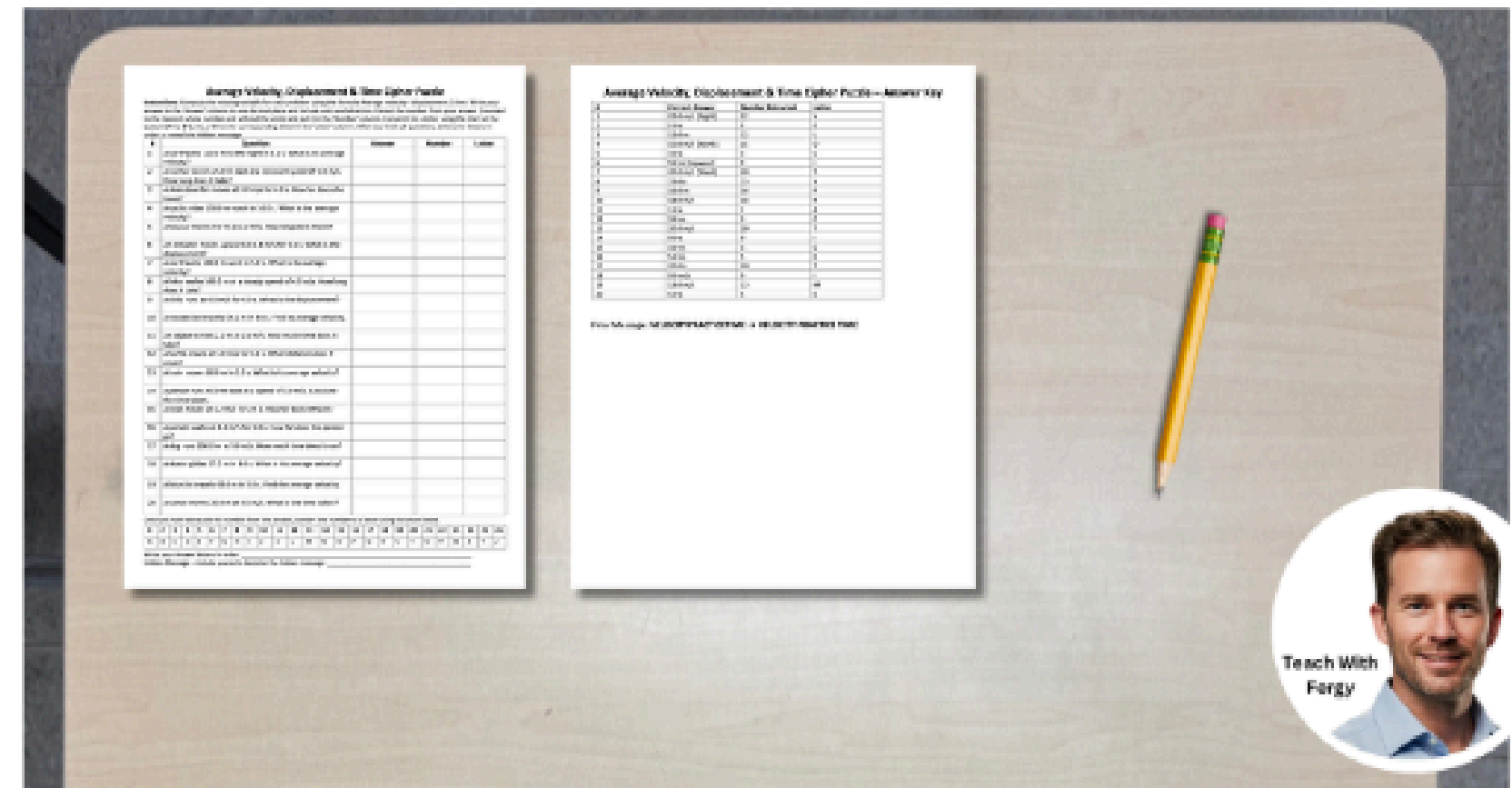
Your Activity

- Is a fun and interactive way to reinforce concepts and study
- **DIGITAL** and **PRINT** ready
- **FULLY EDITABLE**
- Complete Answer Key



Average Velocity, Displacement & Time Cipher Puzzle

- Students solve problems to discover a secret message
- **NO PREP, NO MARKING, NO MATERIALS**



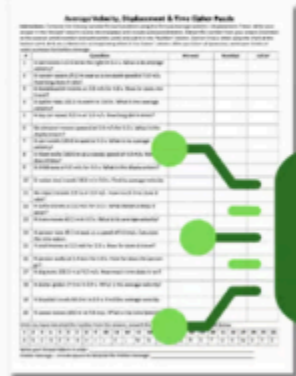
NO PREP, MATERIALS, OR MARKING

Physics - Force, Motion, and Energy Bundle

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Average Velocity, Displacement & Time Cipher Puzzle

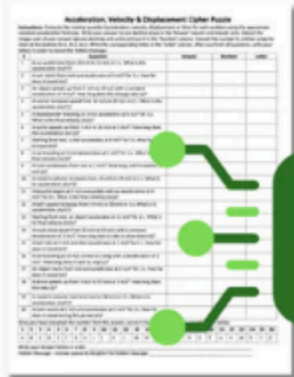
- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS



Acceleration, Velocity, Displacement Cipher Puzzle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS

NO PREP, MATERIALS, OR MARKING



NO PREP, MATERIALS, OR MARKING

Gravitational Potential Energy Cipher Puzzle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS



NO PREP, MATERIALS, OR MARKING

Kinetic Energy Cipher Puzzle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS

NO PREP, MATERIALS, OR MARKING



NO PREP, MATERIALS, OR MARKING

Momentum Cipher Puzzle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS

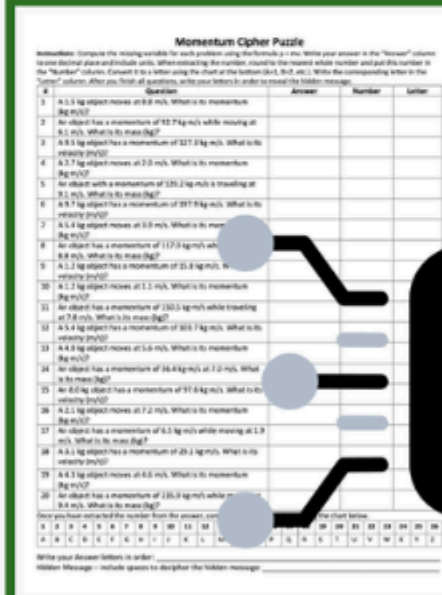


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Physics - Force, Motion, & Energy Cipher Puzzle Bundle

- Students solve problems to discover a secret message
- NO PREP, NO MARKING, NO MATERIALS



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**for your interest
in this resource!**

I am a real person and if
you have any questions,
suggestions, or concerns,
please reach out.



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