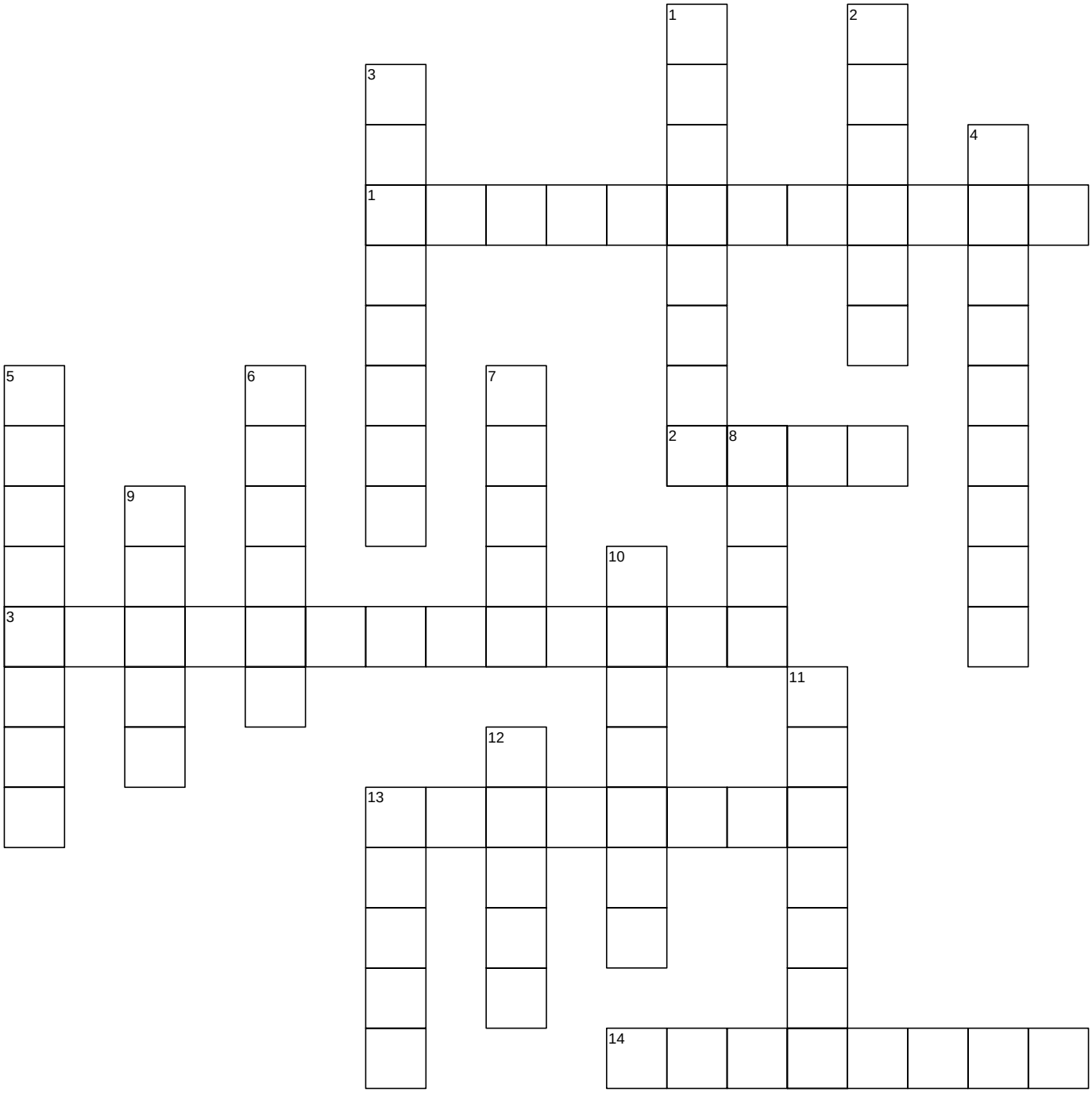
Crossword Puzzle - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Fill in the crossword puzzle by using the clues.



Across

1. ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ the change of velocity of an object in a certain time.

2. ___ ___ ___ ___ the amount of matter an object or substance contains.

3. ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ the outer boundary of a circle.

13. ___ ___ ___ ___ ___ ___ ___ ___ the force which acts to oppose the motion of two touching surfaces over each other.

14. ___ ___ ___ ___ ___ ___ ___ ___ an adhesive friction on a surface.

Down

1. ___ ___ ___ ___ ___ ___ ___ ___ the propulsive force of a body.

2. ___ ___ ___ ___ ___ ___ of mass the point which acts as though the total mass of the object were at that point.

3. ___ ___ ___ ___ ___ ___ ___ ___ a straight line passing from one side to the other through the center of a circle.

4. ___ ___ ___ ___ ___ ___ ___ ___ ___ energy the energy of an object due to its position, which it has because work has been done to put it in that position.

5. ___ ___ ___ ___ ___ ___ ___ ___ is speed plus direction.

6. ___ ___ ___ ___ ___ ___ the ability of a force to produce rotation.

7. ___ ___ ___ ___ ___ the rate of doing work or the rate of change of energy.

8. ___ ___ ___ ___ a shaft on which wheels rotate.

9. ___ ___ ___ ___ ___ a spirally grooved metal cylinder for turning into a surface.

10. ___ ___ ___ ___ ___ ___ ___ the tendency of an object to resist a change in velocity.

11. ___ ___ ___ ___ ___ ___ ___ energy: energy of a moving body.

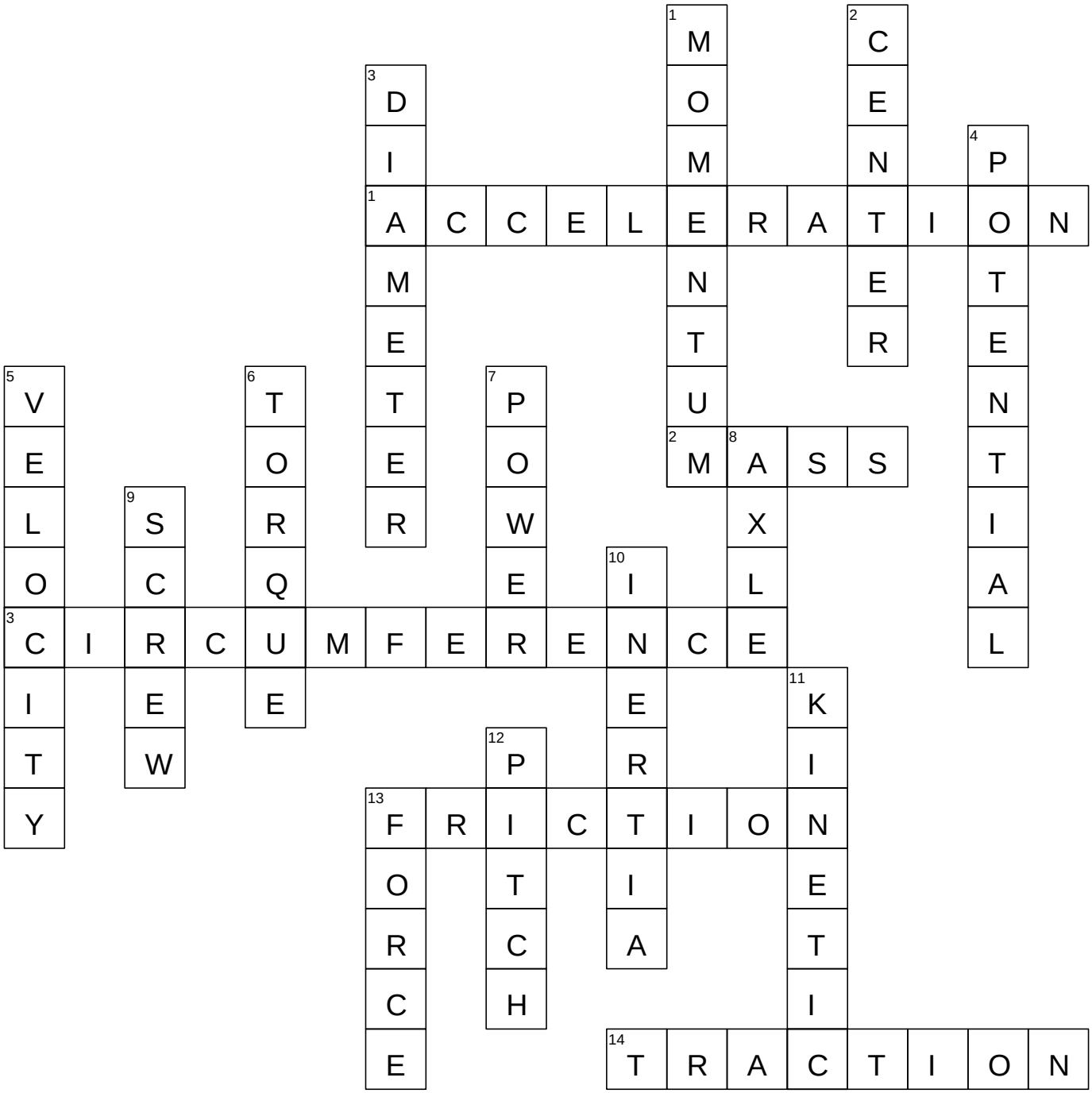
12. ___ ___ ___ ___ ___ the distance between threads on a screw.

13. ___ ___ ___ ___ ___ a push or pull exerted on an object.

Select your answers from the following words:

Center	Traction	Power	Force
Mass	Screw	Pitch	Friction
Velocity	Acceleration	Inertia	Axle
Torque	Momentum	Kinetic	Diameter
Potential	Circumference		

Answers - Mouse Trap Physics



Fill in the Blank - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Fill in the blanks in these sentences with the word that fits.

1. _____ the amount of matter an object or substance contains.
2. _____ the change of velocity of an object in a certain time.
3. _____ the tendency of an object to resist a change in velocity.
4. _____ is speed plus direction.
5. _____ the force which acts to oppose the motion of two touching surfaces over each other.
6. _____ a shaft on which wheels rotate.
7. _____ energy: energy of a moving body.
8. _____ a straight line passing from one side to the other through the center of a circle.
9. _____ a push or pull exerted on an object.
10. _____ of mass the point which acts as though the total mass of the object were at that point.
11. _____ a spirally grooved metal cylinder for turning into a surface.
12. _____ the outer boundary of a circle.
13. _____ the propulsive force of a body.
14. _____ the distance between threads on a screw.

15. _____ energy the energy of an object due to its position, which it has because work has been done to put it in that position.

16. _____ the rate of doing work or the rate of change of energy.

17. _____ the ability of a force to produce rotation.

18. _____ an adhesive friction on a surface.

Select your answers from the following words:

Traction	Mass	Force
Torque	Center	Screw
Diameter	Inertia	Pitch
Friction	Velocity	Potential
Momentum	Power	Circumference
Kinetic	Axle	Acceleration

Answers - Mouse Trap Physics

1. Mass
2. Acceleration
3. Inertia
4. Velocity
5. Friction
6. Axle
7. Kinetic
8. Diameter
9. Force
10. Center
11. Screw
12. Circumference
13. Momentum
14. Pitch
15. Potential
16. Power
17. Torque
18. Traction

Mix and Match - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Fill in the blank with the letter next to the word that best completes the sentence.

1. _____ an adhesive friction on a surface.
2. _____ of mass the point which acts as though the total mass of the object were at that point.
3. _____ is speed plus direction.
4. _____ the force which acts to oppose the motion of two touching surfaces over each other.
5. _____ the outer boundary of a circle.
6. _____ a spirally grooved metal cylinder for turning into a surface.
7. _____ the tendency of an object to resist a change in velocity.
8. _____ a shaft on which wheels rotate.
9. _____ a straight line passing from one side to the other through the center of a circle.
10. _____ the ability of a force to produce rotation.
11. _____ energy the energy of an object due to its position, which it has because work has been done to put it in that position.
12. _____ the rate of doing work or the rate of change of energy.
13. _____ the propulsive force of a body.

a. Acceleration
b. Inertia
c. Momentum
d. Circumference
e. Traction
f. Friction
g. Kinetic
h. Screw
i. Torque
j. Power
k. Potential
l. Mass
m. Force

14. _____ energy: energy of a moving body.

15. _____ the distance between threads on a screw.

16. _____ the amount of matter an object or substance contains.

17. _____ the change of velocity of an object in a certain time.

18. _____ a push or pull exerted on an object.

n. Diameter

o. Center

p. Velocity

q. Axle

r. Pitch

Answers - Mouse Trap Physics

1. e. Traction
2. o. Center
3. p. Velocity
4. f. Friction
5. d. Circumference
6. h. Screw
7. b. Inertia
8. q. Axle
9. n. Diameter
10. i. Torque
11. k. Potential
12. j. Power
13. c. Momentum
14. g. Kinetic
15. r. Pitch
16. l. Mass
17. a. Acceleration
18. m. Force

Multiple Choice - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Each sentence has one word missing. Circle the missing word.

1. _____ the ability of a force to produce rotation.
   A. Torque
   B. Screw
   C. Kinetic
   D. Power

2. _____ the force which acts to oppose the motion of two touching surfaces over each other.
   A. Pitch
   B. Torque
   C. Friction
   D. Center

3. _____ the tendency of an object to resist a change in velocity.
   A. Momentum
   B. Traction
   C. Torque
   D. Inertia

4. _____ energy the energy of an object due to its position, which it has because work has been done to put it in that position.
   A. Potential
   B. Mass
   C. Traction
   D. Pitch

5. _____ is speed plus direction.
   A. Velocity
   B. Kinetic
   C. Traction
   D. Momentum

6. _____ a shaft on which wheels rotate.
   A. Power
   B. Momentum
   C. Inertia
   D. Axle

7. _____ of mass the point which acts as though the total mass of the object were at that point.
   A. Center
   B. Screw
   C. Momentum
   D. Force

8. _____ a spirally grooved metal cylinder for turning into a surface.
   A. Circumference
   B. Acceleration
   C. Screw
   D. Mass

9. _____ the rate of doing work or the rate of change of energy.
   A. Power
   B. Velocity
   C. Pitch
   D. Inertia

10. _____ an adhesive friction on a surface.
   A. Torque
   B. Traction
   C. Circumference
   D. Inertia

11. _____ a push or pull exerted on an object.
   A. Friction
   B. Force
   C. Axle
   D. Pitch

12. _____ the amount of matter an object or substance contains.
   A. Inertia
   B. Mass
   C. Torque
   D. Axle

13. _____ the distance between threads on a screw.
    A. Potential
    B. Friction
    C. Pitch
    D. Center

14. _____ a straight line passing from one side to the other through the center of a circle.
    A. Torque
    B. Kinetic
    C. Diameter
    D. Potential

15. _____ the outer boundary of a circle.
    A. Traction
    B. Screw
    C. Pitch
    D. Circumference

16. _____ the change of velocity of an object in a certain time.
    A. Diameter
    B. Circumference
    C. Friction
    D. Acceleration

17. _____ the propulsive force of a body.
    A. Screw
    B. Friction
    C. Momentum
    D. Force

18. _____ energy: energy of a moving body.
    A. Kinetic
    B. Diameter
    C. Mass
    D. Velocity

Answers - Mouse Trap Physics

1. A. Torque
2. C. Friction
3. D. Inertia
4. A. Potential
5. A. Velocity
6. D. Axle
7. A. Center
8. C. Screw
9. A. Power
10. B. Traction
11. B. Force
12. B. Mass
13. C. Pitch
14. C. Diameter
15. D. Circumference
16. D. Acceleration
17. C. Momentum
18. A. Kinetic

Review Sheet - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Write your own sentence using the underlined words.

1. **Friction** Friction the force which acts to oppose the motion of two touching surfaces over each other.

_____

_____

2. **Kinetic** Kinetic energy: energy of a moving body.

_____

_____

3. **Center** Center of mass the point which acts as though the total mass of the object were at that point.

_____

_____

4. **Mass** Mass the amount of matter an object or substance contains.

_____

_____

5. **Velocity** Velocity is speed plus direction.

6. **Diameter** Diameter a straight line passing from one side to the other through the center of a circle.

7. **Power** Power the rate of doing work or the rate of change of energy.

8. **Acceleration** Acceleration the change of velocity of an object in a certain time.

9. **Force** Force a push or pull exerted on an object.

10. **Momentum** Momentum the propulsive force of a body.

11. **Inertia** Inertia the tendency of an object to resist a change in velocity.

12. **Traction** Traction an adhesive friction on a surface.

13. **Screw** Screw a spirally grooved metal cylinder for turning into a surface.

14. **Potential** Potential energy the energy of an object due to its position, which it has because work has been done to put it in that position.

15. **Circumference** Circumference the outer boundary of a circle.

16. **Torque** Torque the ability of a force to produce rotation.

17. **Pitch** Pitch the distance between threads on a screw.

18. **Axle** Axle a shaft on which wheels rotate.

Scrambled Sentences - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

These sentences are scrambled. Rearrange them so they make sense.

1. of though center mass object were the which point at as the mass acts total the of point that

_____

_____

2. a a of other straight passing one line through the to from the diameter side circle center

_____

_____

3. substance the an matter contains mass object of amount or

_____

_____

4. velocity change an the in of inertia tendency to object resist a

_____

_____

5. the touching motion the force to of acts surfaces which other friction each oppose over two

6. energy: kinetic of moving energy body a

7. threads the pitch screw between distance a on

8. change in certain of a the of time velocity object acceleration an

9. a grooved cylinder metal for spirally screw turning surface into a

10. direction plus is velocity speed

11. the rate of change power energy of rate or doing work the of

12. circle the circumference boundary outer of a

13. of force body the a propulsive momentum

14. a shaft wheels rotate on which axle

15. energy has energy an due put position done its it potential because to work to in been position it the has which of object that

16. the of rotation a force torque to ability produce

17. or an on exerted a object force pull push

_____

_____

18. adhesive an friction surface on traction a

_____

_____

Answers - Mouse Trap Physics

1. Center of mass the point which acts as though the total mass of the object were at that point.

2. Diameter a straight line passing from one side to the other through the center of a circle.

3. Mass the amount of matter an object or substance contains.

4. Inertia the tendency of an object to resist a change in velocity.

5. Friction the force which acts to oppose the motion of two touching surfaces over each other.

6. Kinetic energy: energy of a moving body.

7. Pitch the distance between threads on a screw.

8. Acceleration the change of velocity of an object in a certain time.

9. Screw a spirally grooved metal cylinder for turning into a surface.

10. Velocity is speed plus direction.

11. Power the rate of doing work or the rate of change of energy.

12. Circumference the outer boundary of a circle.

13. Momentum the propulsive force of a body.

14. Axle a shaft on which wheels rotate.

15. Potential energy the energy of an object due to its position, which it has because work has been done to put it in that position.

16. Torque the ability of a force to produce rotation.

17. Force a push or pull exerted on an object.
18. Traction an adhesive friction on a surface.

Scrambled Words - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Each sentence has one word that is scrambled. Unscramble that word.

1. ___ ___ ___ ___ the amount of matter an object or substance contains.
   sMsa

2. ___ ___ ___ ___ ___ ___ ___ ___ an adhesive friction on a surface.
   ircoTant

3. ___ ___ ___ ___ ___ ___ ___ the tendency of an object to resist a change in velocity.
   tnirIae

4. ___ ___ ___ ___ ___ ___ ___ ___ ___ energy the energy of an object due to its position, which it has because work has been done to put it in that position.
   lPtteanio

5. ___ ___ ___ ___ ___ a spirally grooved metal cylinder for turning into a surface.
   Secwr

6. ___ ___ ___ ___ ___ ___ ___ ___ the propulsive force of a body.
   mMutonem

7. ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ the outer boundary of a circle.
   errccemieunCf

8. ___ ___ ___ ___ ___ ___ ___ ___ is speed plus direction.
   elVitcyo

9. ___ ___ ___ ___ ___ ___ ___ energy: energy of a moving body.
   iitKcne

10. ___ ___ ___ ___ a shaft on which wheels rotate.
    Axel

11. ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ the change of velocity of an object in a certain time.
ccaeenroAlti

12. ___ ___ ___ ___ ___ ___ of mass the point which acts as though the total mass of the object were at that point.
eeCrnt

13. ___ ___ ___ ___ ___ ___ ___ ___ a straight line passing from one side to the other through the center of a circle.
Dmaeteri

14. ___ ___ ___ ___ ___ ___ the ability of a force to produce rotation.
Tuorqe

15. ___ ___ ___ ___ ___ the rate of doing work or the rate of change of energy.
rPweo

16. ___ ___ ___ ___ ___ a push or pull exerted on an object.
Feorc

17. ___ ___ ___ ___ ___ the distance between threads on a screw.
ihPct

18. ___ ___ ___ ___ ___ ___ ___ ___ the force which acts to oppose the motion of two touching surfaces over each other.
icoFrtin

Select your answers from the following words:

Center	Friction	Traction
Pitch	Torque	Circumference
Kinetic	Force	Momentum
Mass	Acceleration	Diameter
Power	Velocity	Screw
Axle	Potential	Inertia

Answers - Mouse Trap Physics

1. Mass
2. Traction
3. Inertia
4. Potential
5. Screw
6. Momentum
7. Circumference
8. Velocity
9. Kinetic
10. Axle
11. Acceleration
12. Center
13. Diameter
14. Torque
15. Power
16. Force
17. Pitch
18. Friction

Secret Code - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Decode the word in each sentence.

1. ___ ___ ___ ___ ___ the rate of doing work or the rate of change of energy.
   dtibx

2. ___ ___ ___ ___ ___ a spirally grooved metal cylinder for turning into a surface.
   lzxbi

3. ___ ___ ___ ___ ___ ___ ___ ___ a straight line passing from one side to the other through the center of a circle.
   carpbsbx

4. ___ ___ ___ ___ ___ ___ ___ energy: energy of a moving body.
   oahbsaz

5. ___ ___ ___ ___ ___ ___ of mass the point which acts as though the total mass of the object were at that point.
   zbhsbx

6. ___ ___ ___ ___ the amount of matter an object or substance contains.
   prll

7. ___ ___ ___ ___ ___ ___ ___ ___ is speed plus direction.
   wbqtzasj

8. ___ ___ ___ ___ a shaft on which wheels rotate.
   rvqb

9. ___ ___ ___ ___ ___ the distance between threads on a screw.
   daszg

10. ___ ___ ___ ___ ___ ___ ___ ___ ___ energy the energy of an object due to its position, which it has because work has been done to put it in that position.
    dtsbhsarq

11. ___ ___ ___ ___ ___ ___ the ability of a force to produce rotation.
stxkyb

12. ___ ___ ___ ___ ___ ___ ___ ___ an adhesive friction on a surface.
sxrzsath

13. ___ ___ ___ ___ ___ ___ ___ ___ the propulsive force of a body.
ptpbhsyp

14. ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ the outer boundary of a circle.
zaxzypmbxbhzb

15. ___ ___ ___ ___ ___ a push or pull exerted on an object.
mtxzb

16. ___ ___ ___ ___ ___ ___ ___ ___ the force which acts to oppose the motion of two touching surfaces over each other.
mxazsath

17. ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ the change of velocity of an object in a certain time.
rzzbqbxrsath

18. ___ ___ ___ ___ ___ ___ ___ the tendency of an object to resist a change in velocity.
ahbxsar

Secret Code:

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
r	e	z	c	b	m	u	g	a	f	o	q	p	h	t	d	k	x	l	s	y	w	i	v	j	n

Select your answers from the following words:

Center	Torque	Force
Inertia	Axle	Pitch
Friction	Power	Acceleration
Kinetic	Velocity	Diameter
Circumference	Screw	Mass
Potential	Momentum	Traction

Answers - Mouse Trap Physics

1. Power
2. Screw
3. Diameter
4. Kinetic
5. Center
6. Mass
7. Velocity
8. Axle
9. Pitch
10. Potential
11. Torque
12. Traction
13. Momentum
14. Circumference
15. Force
16. Friction
17. Acceleration
18. Inertia

Word Search - Mouse Trap Physics

Name:_____ Class:_____ Date:_____

Try to find the hidden words.

C T U E H S V B I Z F W K L Y V T

P O T E N T I A L C F C I B T N P

N K R L L T M N D E J G N P Q C E

U M A S S S M T N N G N E A A F H

L V C J D I A M E T E R T X D V M

V B T A A W B O L E W Y I L K H Z

G C I R C U M F E R E N C E B U N

P F O A C W D M M T C F F C C H L

H R N I E P F T O R Q U E W S G K

R I M N L U E P M F M F Q Q V P F

S C I E E I V W E H O Z Y A T P M

C T O R R A E N N G G R P Z B J D

R I P T A Y P I T C H D C U F A S

E O O I T G A N U Q G R R E C L I

W N W A I G U L M I H F B D R N W

J V E L O C I T Y Q F D M K O L O

H V R Z N L R Q X F T A Z E N Z A

<u>Select from the following words:</u>

Diameter	Momentum	Mass	Traction
Acceleration	Torque	Potential	Kinetic
Screw	Force	Friction	Circumference
Velocity	Power	Pitch	Center

Axle Inertia

Answers - Mouse Trap Physics

. . . . K . . . .

P O T E N T I A L C . . I . . . .

. . R . . . . . . E . . N . . . .

. M A S S . . . . N . . E A . . .

. . C . D I A M E T E R T X . . .

. . T . A . . . . E . . I L . . .

. C I R C U M F E R E N C E . . .

. F O . C . . . M . . . .

. R N I E . . T O R Q U E . . . .

. I . N L . . . M F . . . .

S C . E E . . . E . O . . . . . .

C T . R R . . . N . . R . . . . .

R I P T A . P I T C H . C . . . .

E O O I T . . . U . . . . E . . .

W N W A I . . . M . . . .

. V E L O C I T Y . . . .

. . R . N . . . .