

Planets In Our Solar System

Materials:

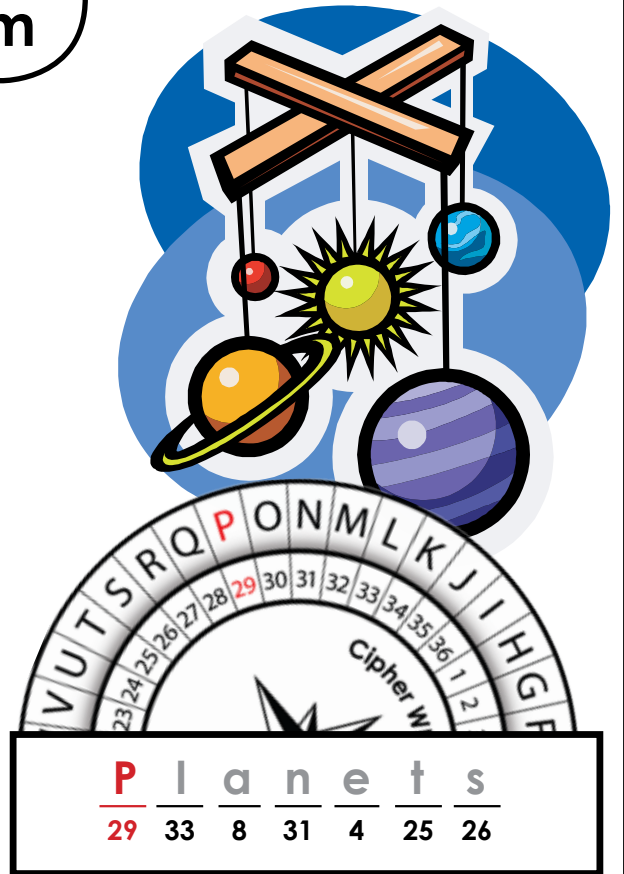
- Scissors
- Brass paper fastener
- Cipher wheel (pages 2 and 3 of this worksheet)
- Our Solar System Cipher Code Fact Cards (pages 4 through 7 of this file)

Assembling the Cipher Wheel

Step 1: Print the cipher wheels on thick card stock.

Step 2: Carefully cut out the inner and outer wheel.

Step 3: Attach the inner wheel to the outer wheel, using a brass paper fastener.



Cracking the Code

Spin the wheel to match the letters and numbers at the top of the fact card. (example: 3 = F)

Keep the wheel in this position as you search for the correct letter match to each number on the fact card.

Write the correct letters in the blank spaces on the fact card.

When the fact is done, read the fact about Planets In Our Solar System.

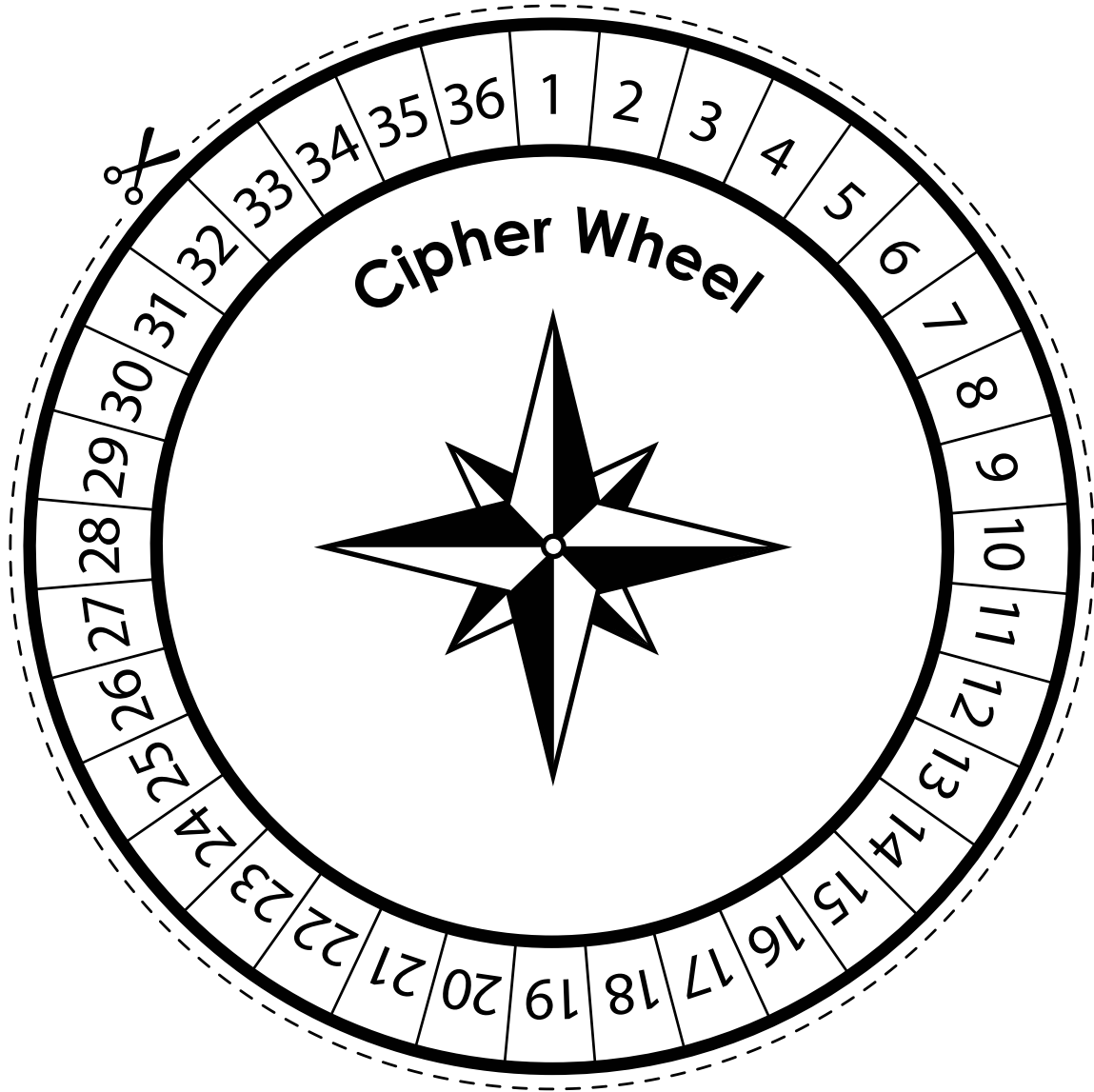
Suggestions for Teachers

In order for the wheel to work correctly, the brass paper fastener must be pushed through the exact middle of the wheel. Your students may need help with this step.

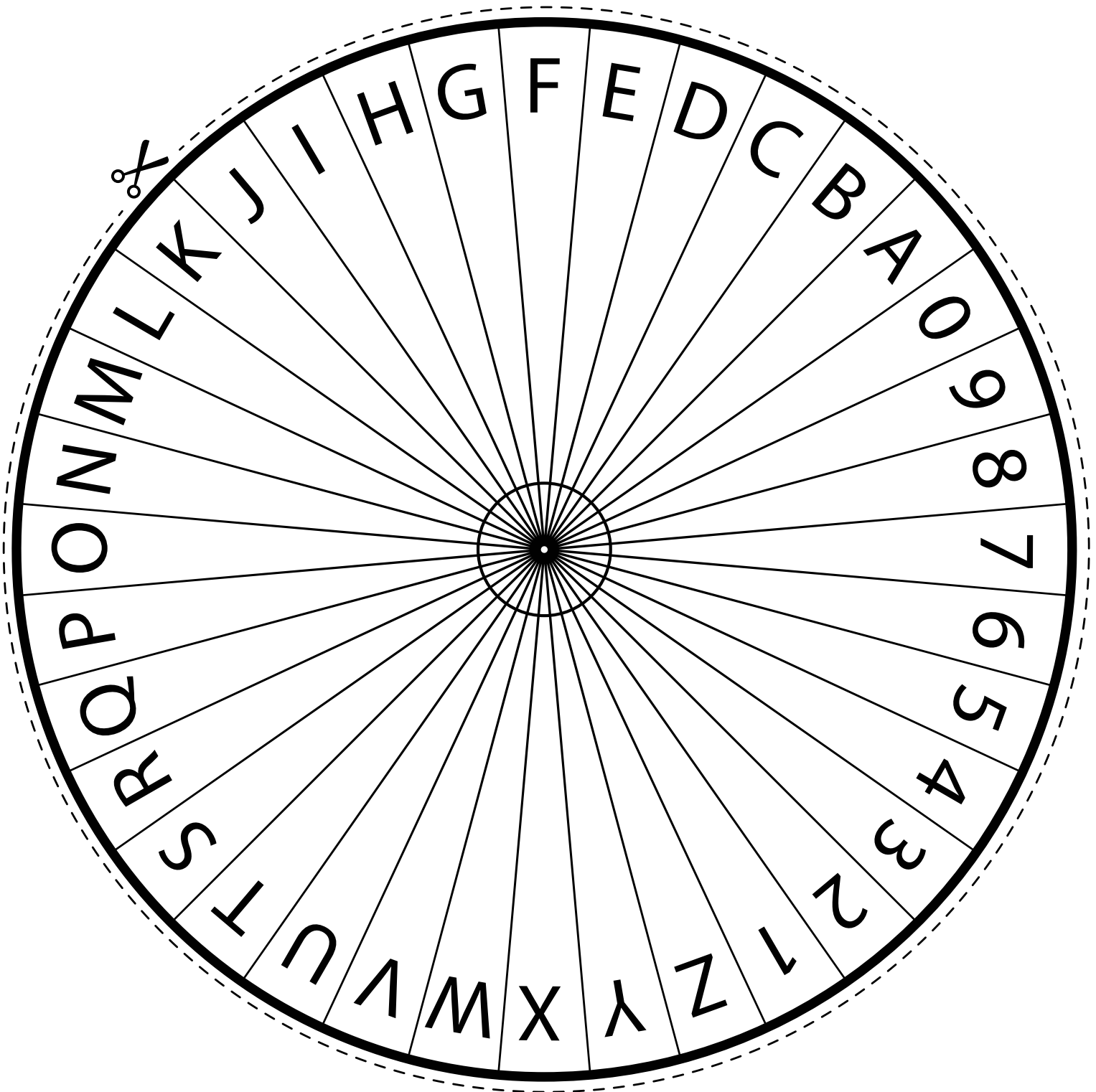
Have students save their cipher wheel for future activities. We have cipher code fact cards covering many topics on *SuperTeacherWorksheets.com*.

The entire activity does not need to be completed in one day. You may want to have students work on this activity for a short period of time each day until they've completed all of the fact cards.

Planets In Our Solar System



Planets In Our Solar System





Planets In Our Solar System Fact #1

Use your Cipher Wheel to decode a fact about Planets In Our Solar System.

Use **1 = T** as the reference point on your wheel.

11 36 5 12 1 16 3

12 2

1 13 16

9 20 3 14 16 2 1

5 9 20 7 16 1

12 7

6 36 3

2 6 9 20 3

2 32 2 1 16 8 .

Planets In Our Solar System Fact #2

Use your Cipher Wheel to decode a fact about Planets In Our Solar System.

Use **13 = S** as the reference point on your wheel.

19 27 14 29 11 14 7

23 13

12 24 27

29 20 17 13 27 13 12

16 20 31 18 27 12

12 17

12 24 27 13 11 18 ,

30 11 12

23 12

23 13

18 17 12

12 24 27

24 17 12 12 27 13 12 .

10 27 18 11 13

23 13

12 24 27

24 17 12 12 27 13 12

16 20 31 18 27 12 .



Planets In Our Solar System Fact #3

Use your Cipher Wheel to decode a fact about Planets In Our Solar System.
Use **27 = Q** as the reference point on your wheel.

31 7 26 25 " 35 25 33 30 29 21 30 " 7 25
24 36 3 26 3 4 28 32 7 30 3 24 .

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Planets In Our Solar System Fact #4

Use your Cipher Wheel to decode a fact about Planets In Our Solar System.
Use **34 = G** as the reference point on your wheel.

22 4 21 20 23 27 32 22 27 21 21 33 36
26 27 29 16 25 29 4 27 36 21 18 32 21 33
23 32 27 34 22 31 20 25 32 21 36 23 ,
27 36 25 21 20 27 36 , 4 27 1 20 23 4 27 20 22
4 29 22 26 33 4 19 36 23 32 27 34 22 .

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Planets In Our Solar System Fact #5

Use your Cipher Wheel to decode a fact about Planets In Our Solar System.

Use **7=L** as the reference point on your wheel.

11 34 6 18 5 36

11 18 33 14

5 14 33 14 1

32 18 7 8 14 15

4 5 18 5 30

3 7 18 5 14 35

17 14 36 10 15 14 36

14 18 1 35 11 .

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Planets In Our Solar System Fact #6

Use your Cipher Wheel to decode a fact about Planets In Our Solar System.

Use **12=Z** as the reference point on your wheel.

25 33 20 35 17 20 13

29 19

18 30 33

19 25 1 26 26 33 19 18

22 26 1 24 33 18

29 24

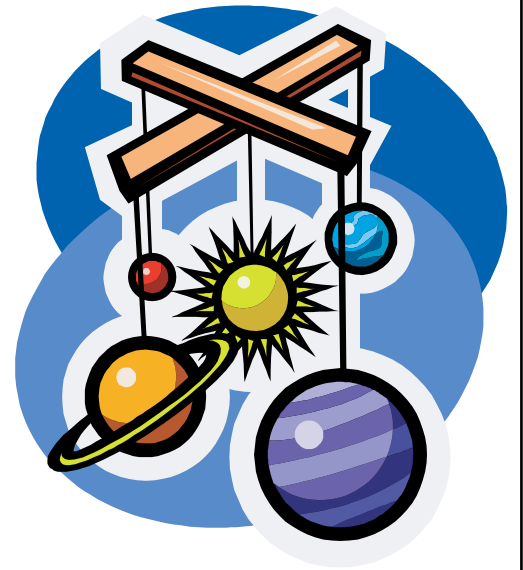
23 17 20

19 23 26 1 20

19 13 19 18 33 25 .

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Planets In Our Solar System



Planets In Our Solar System Fact #1

Jupiter is the largest planet in our solar system.

Planets In Our Solar System Fact #2

Mercury is the closest planet to the sun, but it is not the hottest. Venus is the hottest planet.

Planets In Our Solar System Fact #3

Mars is known as the "Red Planet."

Planets In Our Solar System Fact #4

Saturn isn't the only planet with rings. Jupiter, Neptune, and Uranus also have rings.

Planets In Our Solar System Fact #5

Humans have never walked on any planet besides Earth.

Planets In Our Solar System Fact #6

Mercury is the smallest planet in our solar system.