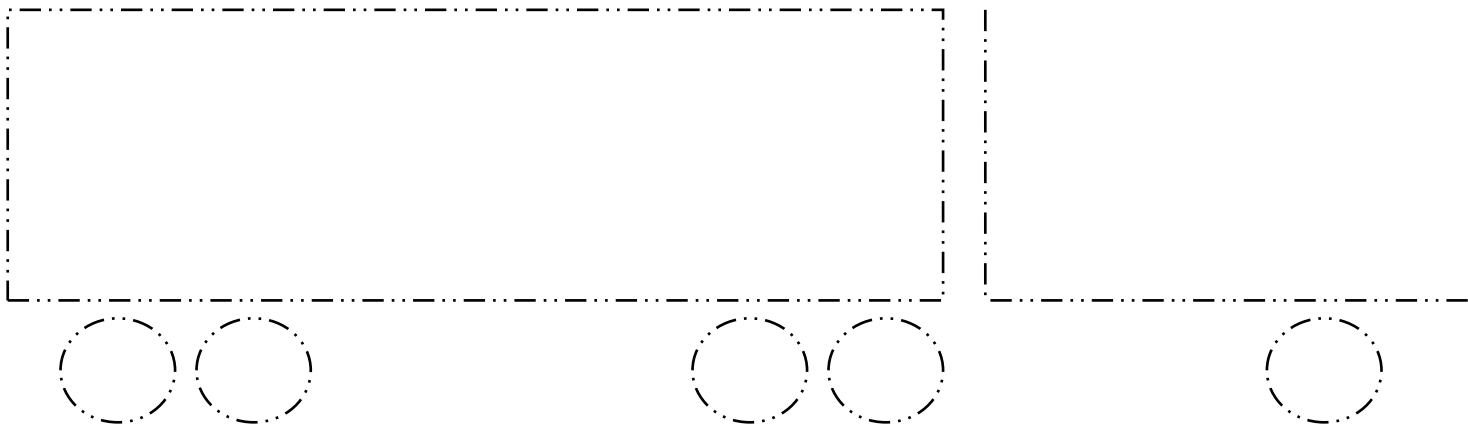


The aerodynamics of the truck improve fuel economy (MPGs) and minimize exhaust emissions. The hood, windshield and roof fair smooth the air flow over the top of the tractor-trailer. The curved front bumper, chassis skirts, drive axle fairings, cab extenders and trailer skirts smooth the air flow around the sides. The rear of the trailer can also have aerodynamic devices to help the air merge back together without so much turbulence.

Trace around each of the dashed sections to see these aerodynamic parts!

DRAW A TRUCK! Start with these few simple shapes:



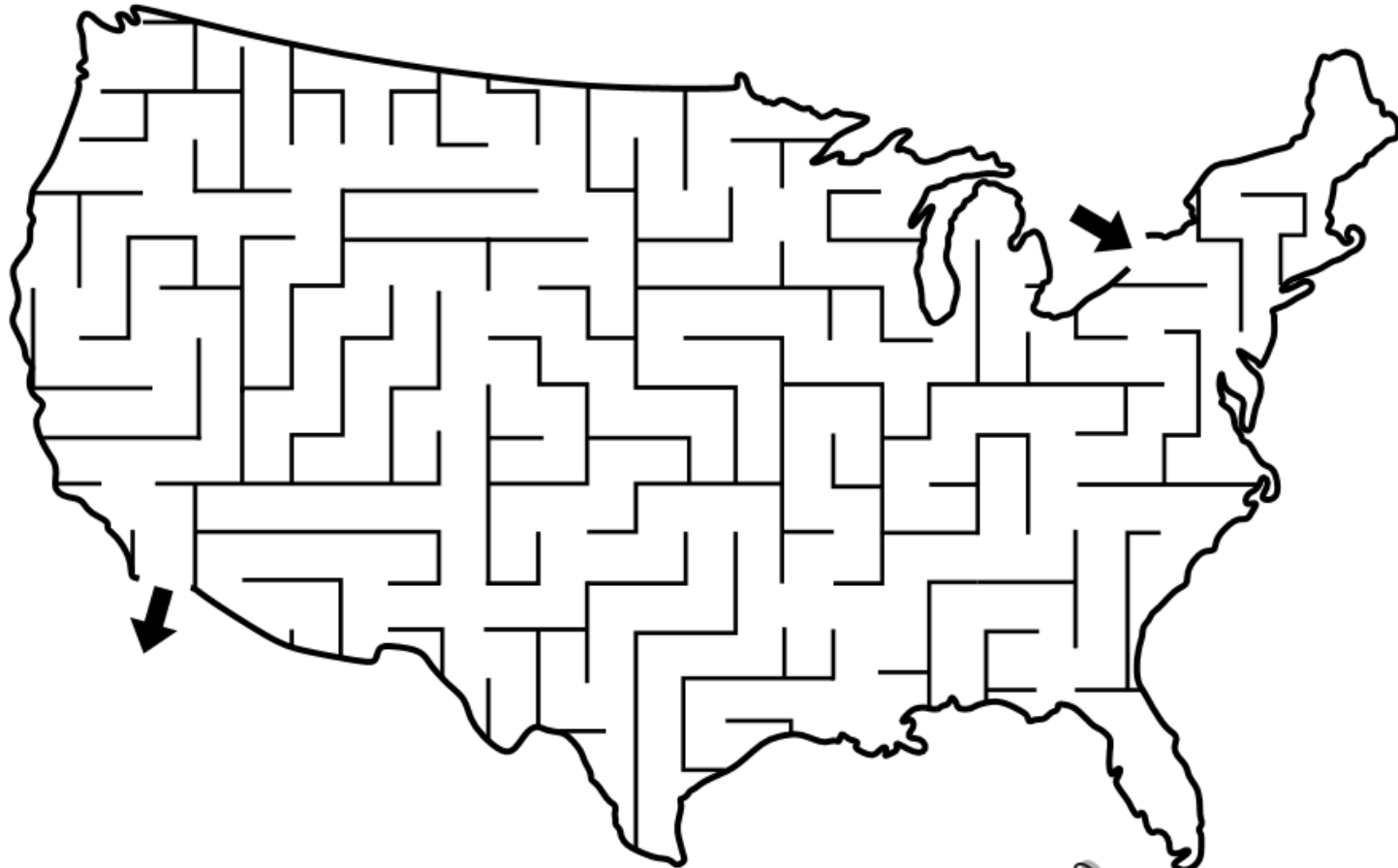
(Trace around the bottom of a box for the trailer and a coin for the wheels)

Add more shapes to make it look more like a real truck:



Put your name in big letters on the trailer and draw your face in the window!

Drive your truck across the USA!



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18 Words About “18 Wheel Trucks”

1. AERODYNAMICS
2. BATTERIES
3. CRUISE CONTROL
4. EFFICIENCY
5. ENGINES
6. FREIGHT
7. IDLE REDUCTION
8. LIGHTWEIGHT
9. MPG
10. PLATOONING
11. ROLLING RESISTANCE
12. SOLAR
13. SUSTAINABILITY
14. TECHNOLOGY
15. TIRE PRESSURE
16. TIRES
17. TRACTOR
18. TRAILER

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

Supporting notes



NACFE normally trains truck fleets and dealerships about technologies to make trucks more efficient. We are sharing these pages to help teachers, industry professionals and parents for use in educating children about trucks that they see on the roads.

Our website and materials are free for all to use, so if you want to know more about aerodynamics for instance, visit: <https://nacfe.org/technology-guide/tractor-aerodynamics/>

The coloring sheet has three different modes of transportation for educational purposes. Many people equate aerodynamics directly with airplanes which is a great place to start the conversation. Ideally trucks are aerodynamic as well to reduce the fuel they consume and to leave a smaller carbon footprint. The truck has dotted lines to help convey the numerous parts of the truck that contribute to being more aerodynamic. The canoe is in the picture because many kids will have closer experiences with boats than with planes or trucks. The bottom of the canoe has optimal aerodynamics to make it as easy as possible to paddle through the water. If you turn the canoe upside down, that is the shape the would be best for the tractor-trailer too. Smoothly tapering into the trailer and smoothly tapering back after the trailer. Only recently have devices been added to the back of the trailers to help in this aspect.

Feel free to use any of these pages to help young minds learn about trucks. If you have other ideas on how to provide educational materials on trucking, please share them with NACFE.