

ELEMENTARY CAREER STUDIES

Teacher Notes

Elementary career studies emphasize career awareness and exploration – not career choice. Career exploration at the elementary school level should allow children to become more self-aware of their skills, abilities and interests and how those traits relate to future career goals. Integrating career conversations across the curriculum allows students to connect the classroom to the real world. The goal of elementary career studies is to provide:

- equal access to career exploration
- opportunities to explore interests, abilities, values and goals
- develop the mindset that learning is lifelong for any career they pursue

CAREER EXPLORATION CONTINUUM

PRIMARY GRADES

Students in kindergarten and 1st grade should be introduced to careers in their community. Students in the 2nd and 3rd grade can understand the similarities and differences between groups of careers making this an ideal time to introduce the [sixteen \(16\) career clusters](#). This organizational framework is important to future career development and understanding future career pathways. INTERMEDIATE GRADES

Rather than focusing on a career, students in the 4th and 5th grades should begin the process of self-discovery through exploring the knowledge, skills and working environments common to careers within the 16 clusters. The resource within this document, “Dig Deeper,” provides sample tasks that allow students to explore those skills and knowledge. The resource, “Is a Career in (*cluster*) for Me?” guides students to reflect to determine their interest in this cluster.

USING THIS DOCUMENT

These activities do not constitute a curriculum, rather they provide a variety of activities to be used within the context of a career studies program that spans K-5. Resources progress by grade level from kindergarten to 5th grade and may be modified to meet student needs. For each cluster, instructional routines may include:

- **Engage** students through videos, online activities, guest speakers or hands on activities
- **Explore** by using texts from the cluster book list as read alouds or part of the classroom library
- **Extend** learning by using resources from this document in learning centers, individual work or group projects

ACKNOWLEDGEMENTS

Special thanks is given to the [Delaware Career Resource Network](#) and the [Labor Market and Career Information \(LMCI\) department of the Texas Workforce Commission](#) for granting permission to revise and include their resources in this document.

TRANSPORTION, DISTRIBUTION AND LOGISTICS

Teacher Resource

Note: Careers in Transportation are divided into pathways. Listed below are some of the careers found in each pathway and range from entry level to those that require post-secondary training, certificates and/or degrees. This list serves only to build educator background knowledge. Students are not introduced to career pathways until the 6th–8th grade band.

Transportation Operations Pathway

Specialists in this pathway are always on the move! These are the people that drive or pilot the vehicles that transport people and freight safely, securely, and on time.

- Air Traffic Controllers
- Airplane Pilot
- Heavy Truck Drivers
- Locomotive Engineer

Logistics, Planning and Management Pathway

These specialists create plans and work to ensure that cargo arrives at the right location, on time and in the safest, most economical manner.

- Logistics Specialist
- Logistics Analyst
- Logistics Engineer
- Logistics Manager

Warehousing and Distribution Pathway

These specialists work in distribution facilities including ports, terminals and warehouses. All cargo must be tracked, sorted, labeled and loaded accurately and safely.

- Truck Loader
- Industrial Engineer
- Production Clerk
- Warehouse Manager

Facility and Mobile Equipment Maintenance Pathway

Specialists in this pathway work to maintain, repair and service vehicles and transportation facilities.

- Electrical Technician
- Industrial Equipment Mechanic
- Aircraft Mechanic
- Diesel Engine Specialist

Transportation Systems Pathway

Careers in the Transportation Systems/Infrastructure Planning, Management and Regulation pathway work with the design and operation of our public transportation systems – road, air, sea and rail.

- Aviation Inspector
- Civil Engineer
- Department of Transportation Officer
- Surveying Technician

Health, Safety and Environmental Pathway

Professionals in this pathway assess and manage risks associated with safety and environmental issues by research, planning and carrying out activities to make our environment safer and cleaner.

- Environmental Engineer
- First Responder
- Hazardous Materials Manager
- Safety Analyst

Sales and Service Pathway

Individuals in this pathway work to market, sell or rent vehicles. Others move passengers and freight, make reservations and travel plans, sell tickets and attend to customer needs.

- Cargo and Freight Agent
- Billing Clerk
- Customer Service Manager
- Sales Representative

Alphabet Letter Printing Worksheet

Practice writing each upper case and lower case letter on the lines below as shown on the sample letters. Then write the name of the occupation.

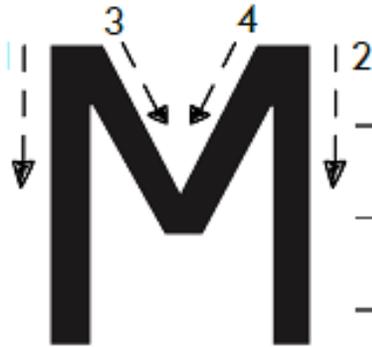


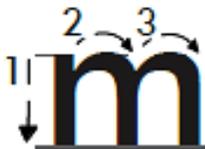


Bus Driver

Alphabet Letter Printing Worksheet

Practice writing each upper case and lower case letter on the lines below as shown on the sample letters. Then write the name of the occupation.

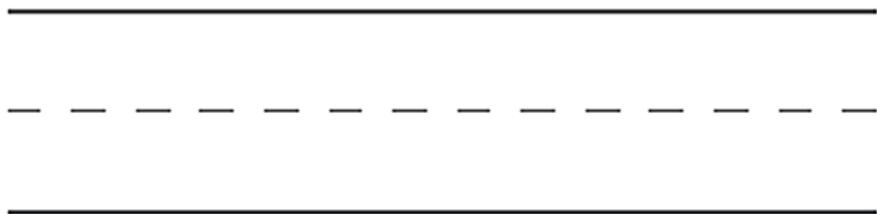
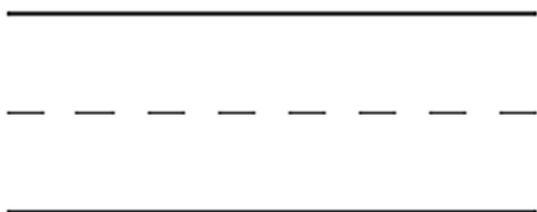




Mechanic

Alphabet Letter Printing Worksheet

Practice writing each upper case and lower case letter on the lines below as shown on the sample letters. Then write the name of the occupation.

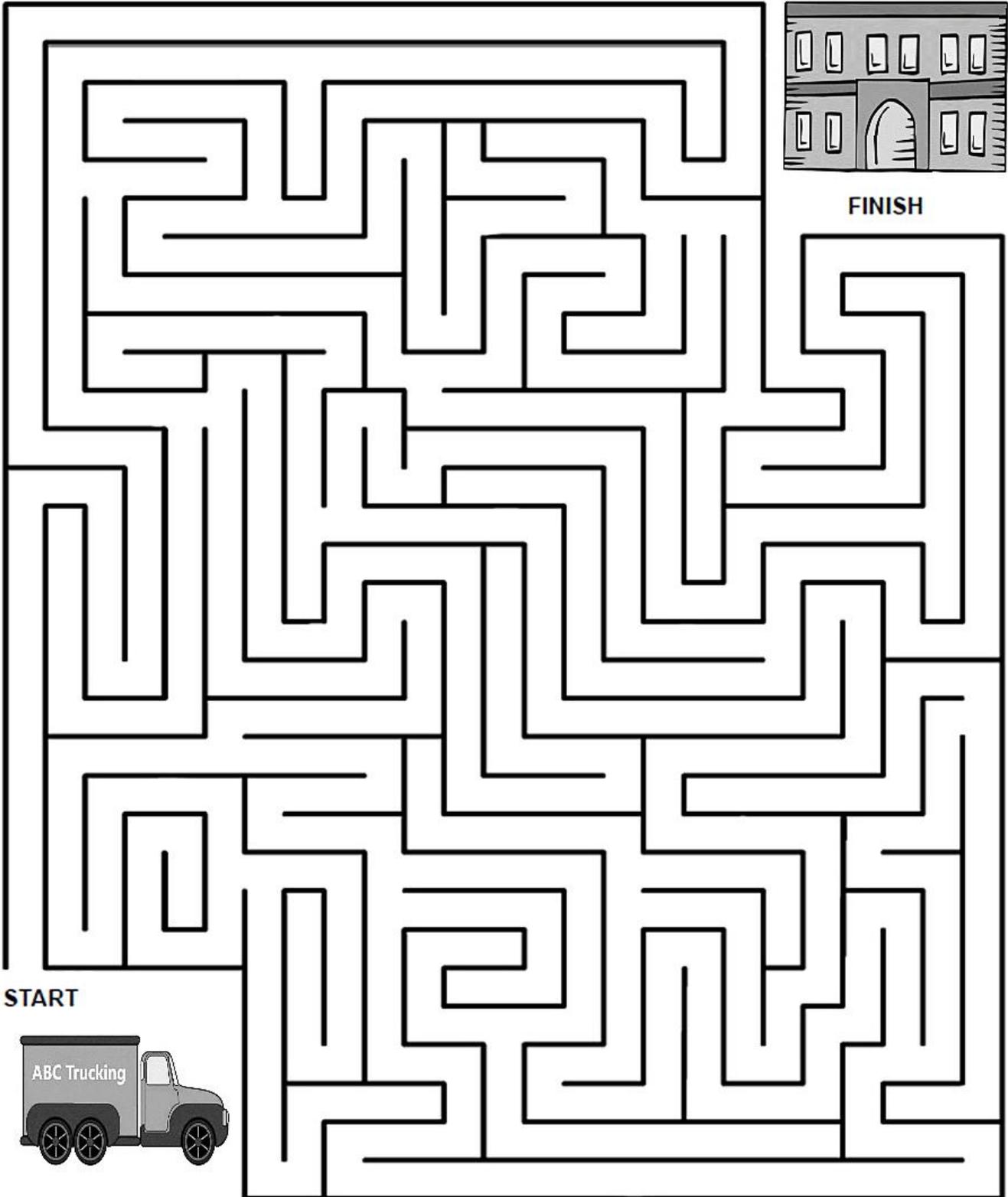


Pilot

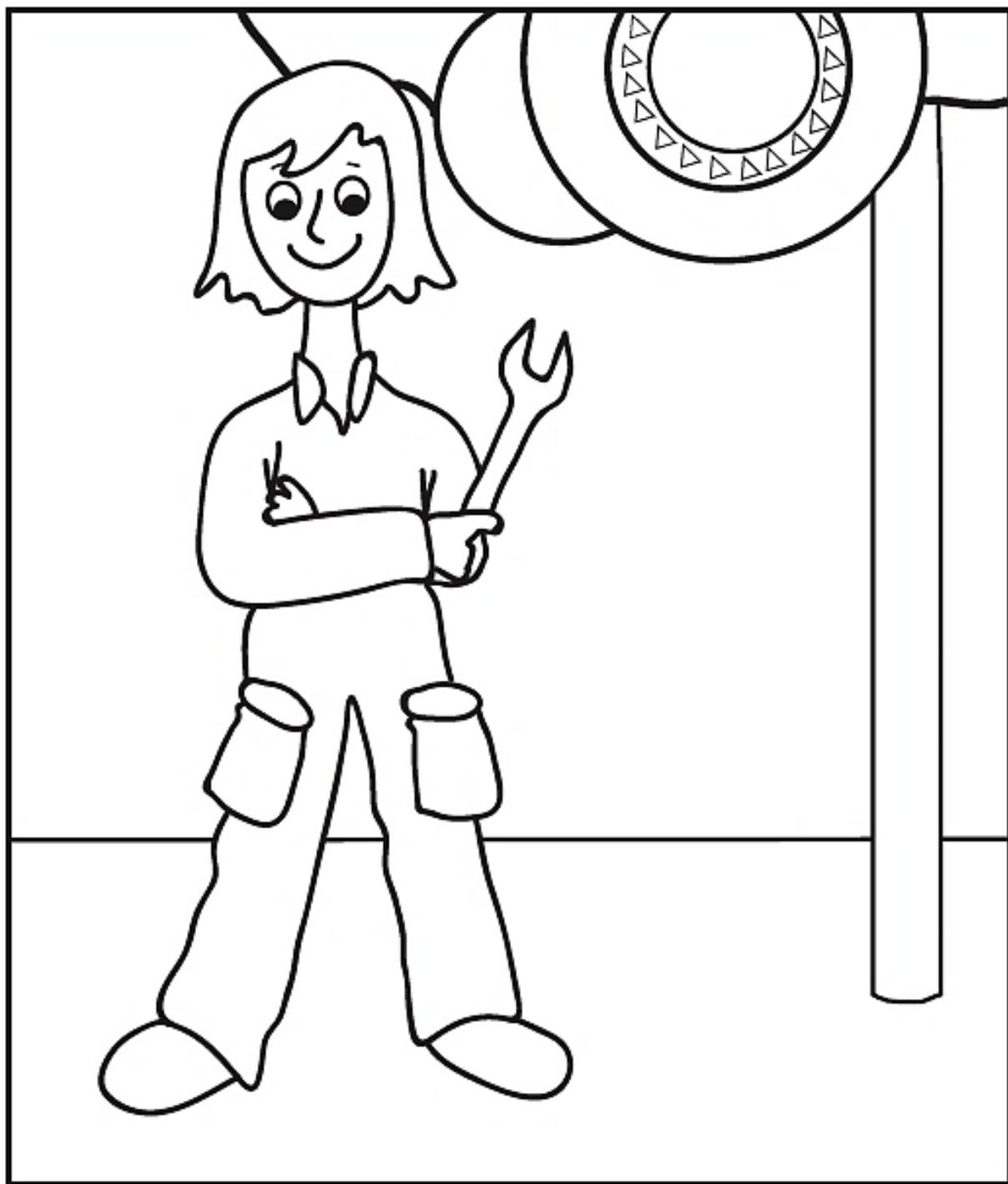


LOGISTICS

Logistics is the planning and movement of goods from one location to another. Can you find the route for ABC truck driver to follow to deliver his product?



TRANSPORTATION



AUTOMOTIVE TECHNICIAN

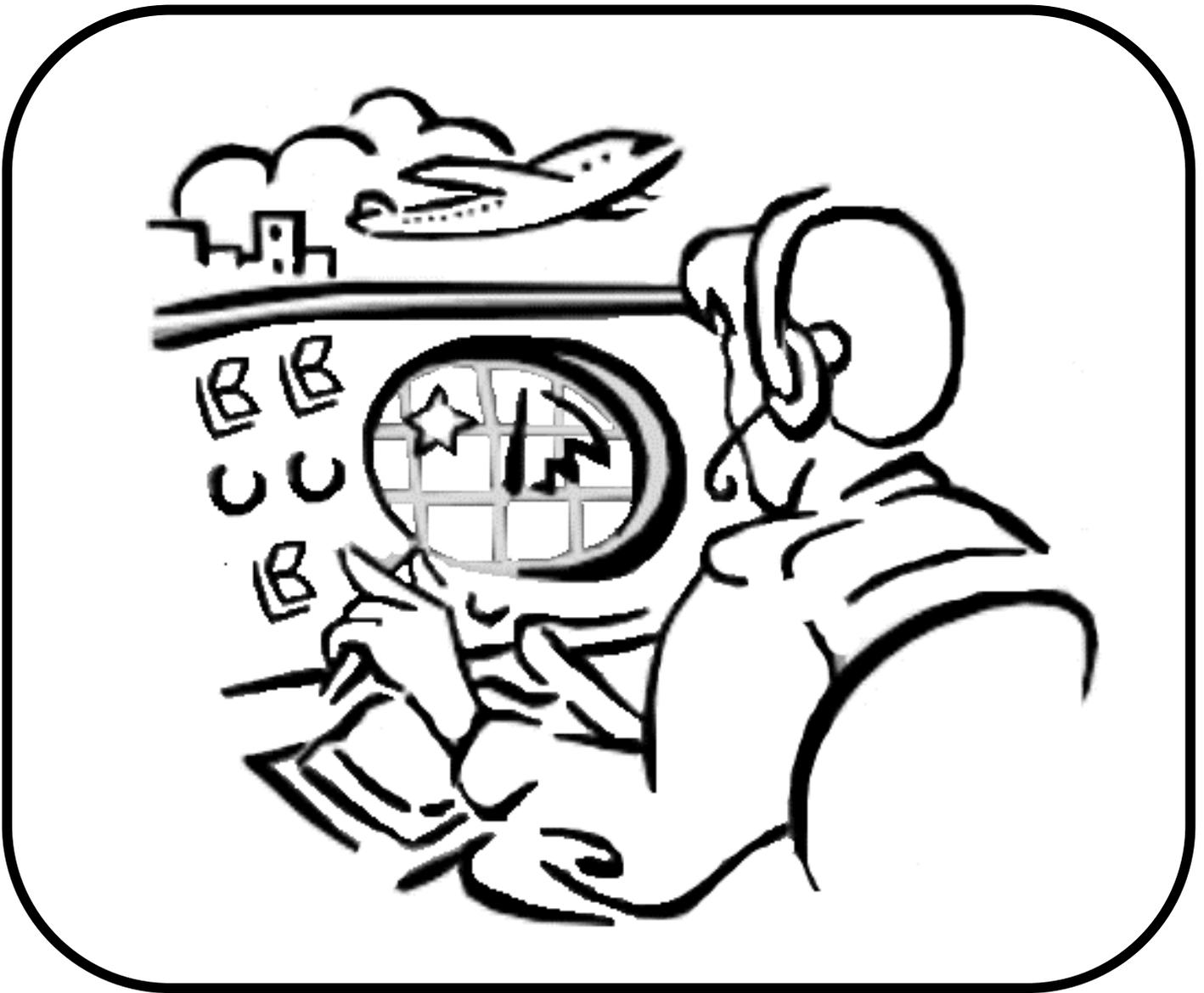
Automotive Technicians inspect, maintain and repair cars. They work with tools and computers.

MECHANIC



Mechanics inspect, maintain, and repair cars and trucks. They work with tools and computers.

Air Traffic Controller



Air traffic controllers keep travelers safe by guiding pilots as they take off and land at airports. They monitor airplanes as they fly through to air and alert pilots of any dangerous conditions.



Sample Careers

1. Ship Captain
2. Automotive Mechanic
3. School Bus Driver
4. Airplane Pilot
5. _____

Can you think of another?

Careers in the Transportation, Distribution & Logistics cluster move people, material and goods safely. People in these occupations can work with cars, busses, trucks, trains, boats and airplanes. They may work in the air, on the ocean or on highways moving things from one place to another. You can be a taxi driver, engineer, air traffic controller or mechanic and be in this career cluster.





Name _____

Draw a map showing how to get from your home to school.

Write out the directions below.

Transportation, Distribution & Logistics Careers

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

CARGO AGENT
 PILOT
 SHIPPING CLERK
 ENGINEER
 TRAVEL AGENT
 STORAGE MANAGER
 URBAN PLANNER

DELIVERY DRIVER
 MATERIAL MOVER
 SALES MANAGER
 SERVICE MANAGER
 SAFETY ANALYST
 BUS DRIVER
 AUTO TECHNICIAN

Play online at <https://bit.ly/3nfC0JF>

DIG DEEPER

Note: These tasks serve only to generate ideas and connect real world activities to academic content. **Exploratory Tasks** may be teacher led through a class project, demonstration or assignment. **Extension Tasks** may be modified to align with ELA, math, science or social studies content through writing, determining/comparing costs, human impact, etc.

Exploratory Tasks	Extension Tasks
Investigate what public transportation is available near you. On a map, locate the closest airport, bus stop and train station.	Choose a location and create a travel plan including method of travel, distance and estimated costs.
Interview a delivery driver to learn how they manage delivering large amounts of products.	You've bought a new pair of sneakers for your friend who lives in Chicago, Illinois. How much would it cost to ship to her? How long would it take? Is there a difference in rates among companies?
Talk to a school bus driver to learn how many students are transported to your school every day. How many drivers are needed? How many routes are there?	On a large sheet of paper, map the bus routes for students in your class. What is the mileage for each route? What is a total mileage required to transport you class to school?
Interview an automotive technician to learn how adults take care of their cars. With the technician's help, create a checklist of things that require regular maintenance. Talk with an adult to learn how they maintain their car.	Where do adults have their cars serviced in your town? Use the internet to make a list of local automotive service centers.

Is a Career in Transportation, Distribution and Logistics for Me?

Would you be interested in a career in Transportation, Distribution and Logistics? Below are knowledge and skill statements related to the careers in this cluster. Read each statement. Decide if this describes you by checking the Yes, No or Maybe box.

THINGS I LIKE TO DO	YES	NO	MAYBE
Travel			
See well and have quick reflexes			
Solve mechanical problems			
Design efficient processes			
Anticipate needs and prepare to meet them			
Drive or ride			
Move things one place to another			
PERSONAL QUALITIES THAT DESCRIBE ME	YES	NO	MAYBE
Realistic			
Mechanical			
Coordinated			
Observant			
Planner			
SCHOOL SUBJECTS THAT INTEREST ME	YES	NO	MAYBE
Math			
Trade and industrial courses			
Physical sciences			
Economics			
Foreign language			

Did you check YES most often? If so, continue to explore careers and opportunities in this cluster. And don't forget to focus on your math and science classes to build the academic skills you need for these careers.

Did you check NO most often? If so, don't worry. There are hundreds of jobs to explore in the other 15 career clusters.

Did you check MAYBE most often? If so, continue to explore this cluster as well as investigating how your skills and interests may be a good match in other clusters.