

Individual Plan of Study Scope and Sequence

PRESCHOOL-GRADE 12



MISSION

To prepare Kansas students for lifelong success through rigorous, quality academic instruction, career training and character development according to each student's gifts and talents.

VISION

Kansas leads the world in the success of each student.

MOTTO

Kansans Can

SUCCESS DEFINED

A successful Kansas high school graduate has the

- Academic preparation,
- Cognitive preparation,
- Technical skills,
- Employability skills and
- Civic engagement

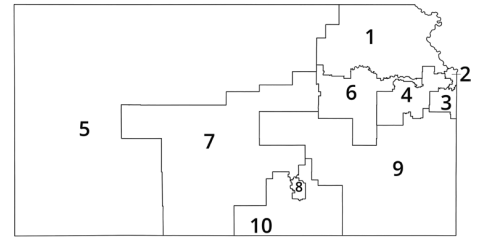
to be successful in postsecondary education, in the attainment of an industry recognized certification or in the workforce, without the need for remediation.

OUTCOMES

- Social-emotional growth
- Kindergarten readiness
- Individual Plan of Study
- Civic engagement
- Academically prepared for postsecondary
- High school graduation
- Postsecondary success



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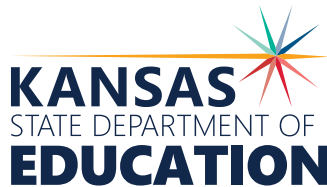


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Jan. 25, 2024

IPS SCOPE AND SEQUENCE

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IPS SCOPE AND SEQUENCE

Acknowledgements

Preschool Scope and Sequence

Courtney Groves, Topeka Public Schools USD 501

Kindergarten-Grade 7 Scope and Sequence

Lindsay King, Newton USD 373

IPS SCOPE AND SEQUENCE

Overview Preschool-Grade 7

The purpose of this document is to support schools and districts to implement Individual Plan of Study (IPS) practices that are grade-level appropriate aligned to the Kansas Career Development Process. This resource is a framework for each grade that lists the developmental focus of each grade level and describes activities students may engage in during that year. For more information on the Individual Plan of Study, please review the [IPS Digital Reference Guide](#)¹ (KSDE, 2023). There are three domains in which activities fall: Career awareness, career exploration, and career preparation.

GUIDING PRINCIPLES

- K-7 staff are preparing students for postsecondary success daily through teaching and practice of employability skills, reading, and math skills.
- Early career awareness and exploration increases access and equity for all students and encourages non-traditional and special populations participation in postsecondary endeavors.
- This scope and sequence is organized to expose all students, grades K-7, to each Kansas Career Cluster.



**Learning that works
for Kansas**

IPS SCOPE AND SEQUENCE

Preschool

Within the framework, each grade level focuses on a Kansas Career Cluster. The developmental focus for kindergarten includes career recognition, number sense, safety and natural forces.

CAREER CLUSTERS: AGRICULTURE, PUBLIC SERVICES

Career Exploration

Led by teacher in whole group setting

Example Lesson Resources: Apple

- [Ag in Preschool Lessons](#)²

Example Activities: Apple

- [Apple Taste Test Activity](#)³
- [Preschool Apple Activities](#)⁴
- Plant seeds

Video:

- [Apple Orchard Virtual Field Trip](#)⁵

Vocabulary:

- Orchard
- Harvest
- Root
- Seed

Example Lesson Resources:

Community Helpers

- [Introduction to Community Helpers](#)⁶
- [What Community Helpers Teach Children](#)⁷

Example Activities: Community Helpers

- [Preschool Community Helper Activities](#)⁸
- [Community Helpers Virtual Field Trips](#)⁹
- Have community helpers come talk to the preschool class about their jobs.
- Examples of community helpers:
 - Police Officer
 - Doctor
 - Dentist
 - Mail Carrier
 - Firefighter
 - Teacher

Led by teacher in small group setting

Example Lesson Resources: Apple

- Boom Card for interactive Apple Farmer Annie lesson¹⁰

Example Activities: Apple

- Preschool Apple Activities for Small Groups¹¹
- Preschool Apple Literacy, Math, Science and Art Activities¹²
- Apple Farmer Dramatic Play Ideas¹³

Example Activities: Community Helpers

- Preschool Community Helpers Activities for Small Groups¹⁴
- Community Helpers Literacy, Math and Art Activities¹⁵
- Community Helpers Dramatic Play Ideas¹⁶

Led by high school students in preschool classroom

Example Lesson Resources: Apple Farmer Annie

- Read the book, *Apple Farmer Annie*.¹⁷
- Example of Preschool STEAM Apple Farmer Annie lesson¹⁸
- Boom Card for interactive Apple Farmer Annie lesson¹²

Example Apple Activities:

- Apple Taste Test Activity³
- Example of Apple Tasting Class Graph¹⁹

Example Lesson Resources: Community Helpers

- Read the book, *Clothesline Clues to Jobs People Do*.²⁰
- Boom Card or interactive Clothesline Clues to Jobs People Do lesson²¹

Example Community Helper Activities:

- Community Helper Hats Activity²²
- Community Helpers Sort and Classify Activity²³

PRESCHOOL

Community Activities

- Visit a fire station
- Visit an apple orchard, [Cider Hill Family Orchard](#)²⁴
- Visit the [Kansas Children's Discovery Center](#)²⁵ and explore the different future career play areas (examples: bank, veterinarian's office, restaurant, grocery store, mechanic)



Apple Farming Books for Preschool

- Amstutz, L. J. (2017). *Applesauce Day*. Albert Whitman & Company.
- Dickmann, N. (2010). *An Apple's Life*. Heinemann Library.
- Gibbons, G. (2020). *Apples*. Holiday House.
- Hall, Z. (2017). *The Apple Pie Tree*. Scholastic Inc.
- Kann, V. (2016). Pinkalicious: *Apples, Apples, Apples!* HarperFestival.
- Maestro, B., & Giulio Maestro. (1992). *How do apples grow?* Harpercollins Publishers.
- McDonald, J. (2019). *How do apples grow?* Doubleday, An Imprint Of Penguin Random House Children's Books.
- Ransom, C. (2016). *Apple Picking Day!* RH Childrens Books.
- Robin Michal Koontz, & Takvorian, N. (2010). *Apples, apples everywhere! : learning about apple harvests*. Picture Window Books.
- Wellington, M. (2012). *Apple Farmer Annie Board Book*. Penguin.

Community Helpers Books for Preschool

- Heling, K., & Hembrook, D. (2018). *Clothesline Clues to Jobs People Do*. Triangle Interactive, Inc.
- Katz Cooper, S. (2006). *Whose Hat Is This?* Capstone.
- Katz Cooper, S. (2006). *Whose Tools Are These?* Capstone Classroom.
- Mayo, M. (2002). *Emergency!* Carolrhoda Books.
- McMullan, K. (2015). *I Stink!* HarperCollins.
- Owen, A. (2004). *Keeping you safe : a book about police officers*. Picture Window Books.
- Rockwell, A. F., Lizzy Rockwell, & Cozart, K. (2011). *Career day*. National Geographic School Publishing.
- Wellington, M. (2006). *Pizza at Sally's*. Dutton Children's Books.

IPS SCOPE AND SEQUENCE

Kindergarten

Within the framework, each grade level focuses on a Kansas Career Cluster. The developmental focus for kindergarten includes career recognition, number sense, safety and natural forces.

CAREER CLUSTERS: AGRICULTURE, PUBLIC SERVICES

Career Exploration

Led by teacher in classroom

Example Lesson Resources:

- [Kansas Corn lessons](http://kscorn.com) (kscorn.com) ²⁷
- [National Agriculture in the Classroom lessons](http://agclassroom.org) (agclassroom.org) ²⁸
- [Code.org](http://code.org) ²⁹

Example Activities:

- Chicken eggs in incubator
- Plant seeds
- We Will Build It Better kit
- Work with construction/building toys

HirePaths Explore Careers videos:

- [Agriculture](#) ³⁰
- [Public Service](#) ³¹

Example Vocabulary:

- Hammer
- Helmet
- Stethoscope
- Metal
- Wood

Led by High School Students in kindergarten classroom

Example Lesson Resources:

- [National Agriculture in the Classroom lessons](http://agclassroom.org) (agclassroom.org) ²

Example Activity:

- [Teddy Bear clinic](http://copingspace.org) (copingspace.org) ³²
- Doctor for a Day activity: High school students help kindergarten students dress up in medical gear and complete simple activities related to health and wellness.

Led by High School Students in their Career and Technical Education (CTE) classroom)

Example Activity: *"What Hat Will You Wear?"*

- Read the book *"What Shoes Will You Wear?"*³³
- Participate in *"What Hat Will You Wear?"* event that allows students to explore careers in construction, welding, first response, and nursing. (See schedule template on page 12.)
- End program with kindergarten students trying on caps and gowns to promote the idea that postsecondary success includes high school graduation.

HirePaths Cool Careers videos:

- [Plumber](#)³⁴
- [Heavy equipment technician](#)³⁵
- [Welder](#)³⁶
- [Carpenter](#)³⁷
- [Registered nurse](#)³⁸

Community Activities

- Visit a pumpkin patch
- Visit the post office
- Visit a fire station
- Host a big truck/touch-a-truck event



“What Hat Will You Wear” Sample Schedule Template

Tuesday, April 2, 2024

6 Groups

12–12:45 p.m.

Group 1

Time	Subject	Activity	Location
12–12:07 p.m.	Education	Cap and gown; book reading	MCA Hub
12:07–12:14 p.m.	Construction	Hard hat and high vis vest	MCA Hub
12:14–12:21 p.m.	Welding	Welding jacket	MCA Hub
12:21–12:28 p.m.	Nurse	Surgical gown and stethoscope	107
12:28–12:35 p.m.	School Resource Officer (SRO)	Sticker badge	107
12:35–12:42 p.m.	Emergency Medical Technician (EMT)		107

Group 2

Time	Subject	Activity	Location
12–12:07 p.m.	Construction	Hard hat and high vis vest	MCA Hub
12:07–12:14 p.m.	Welding	Welding jackets	MCA Hub
12:14–12:21 p.m.	Education	Cap and gown; book reading	MCA Hub
12:21–12:28 p.m.	SRO	Sticker badge	107
12:28–12:35 p.m.	EMT		107
12:35–12:42 p.m.	Nurse	Surgical gown and stethoscope	107

Group 3

Time	Subject	Activity	Location
12–12:07 p.m.	Welding	Welding jackets	MCA Hub
12:07–12:14 p.m.	Education	Cap and gown; book reading	MCA Hub
12:14–12:21 p.m.	Construction	Hard hat and high vis vest	MCA Hub
12:21–12:28 p.m.	EMT		107
12:28–12:35 p.m.	Nurse	Surgical gown and stethoscope	107
12:35–12:42 p.m.	SRO	Sticker badges	107

Group 4

Time	Subject	Activity	Location
12-12:07 p.m.	Nurse	Surgical gown and stethoscope	107
12:07-12:14 p.m.	SRO	Sticker badge	107
12:14-12:21 p.m.	EMT		107
12:21-12:28 p.m.	Education	Cap and gown; book reading	MCA Hub
12:28-12:35 p.m.	Construction	Hard hat and high vis vest	MCA Hub
12:35-12:42 p.m.	Welding	Welding jackets	MCA Hub

Group 5

Time	Subject	Activity	Location
12-12:07 p.m.	SRO	Sticker badges	107
12:07-12:14 p.m.	EMT		107
12:14-12:21 p.m.	Nurse	Surgical gown and stethoscope	107
12:21-12:28 p.m.	Construction	Hard hat and high vis vest	MCA Hub
12:28-12:35 p.m.	Welding	Welding jacket	MCA Hub
12:35-12:42 p.m.	Education	Cap and gown; book reading	MCA Hub

Group 6

Time	Subject	Activity	Location
12-12:07 p.m.	EMT		107
12:07-12:14 p.m.	Nurse	Surgical gown and stethoscope	107
12:14-12:21 p.m.	SRO	Sticker badge	107
12:21-12:28 p.m.	Welding	Welding jacket	MCA Hub
12:28-12:35 p.m.	Education	Cap and gown; book reading	MCA Hub
12:35-12:42 p.m.	Construction	Hard hat and high vis vest	MCA Hub

IPS SCOPE AND SEQUENCE

Grade 1

Within the framework, each grade level focuses on a Kansas Career Cluster. The developmental focus for first-grade includes career recognition, number sense, safety and natural forces.

CAREER CLUSTERS: BUSINESS, PRODUCTION AND REPAIR

Career Exploration

Led by teacher in classroom

Example Lesson Resources:

- [Roleplay careers](#)³⁹ at the airport
- [Code.org](#)³

HirePaths Cool Careers video:

- [Pilot](#)⁴⁰

HirePaths Explore Careers videos:

- [Transportation](#)⁴¹

Vocabulary:

- Parts of an airplane.
- Types of transportation.

Led by high school students in first-grade classroom

Example Lesson Resources:

- [Build marble runs](#)⁴²
- [Weather lab](#)⁴³
- [Design a city](#)⁴⁴

Led by high school students in their CTE classroom

Example Activity: *"What Hat Will You Wear?"*

- Read the book *"What Shoes Will You Wear?"*⁴⁵
- Participate in *"What Hat Will You Wear?"* event that allows students to explore careers including pilot, astronaut, zoologist, chef, and engineer (See schedule template on page 16.)

Community Activities

- Tour the town
- Ride the school bus
- Visit an airport



“What Hat Will You Wear” Sample Schedule Template

Tuesday, April 2, 2024

6 Groups

12–12:45 p.m.

Group 1

Time	Subject	Activity	Location
12–12:07 p.m.	Education	Book reading	MCA Hub
12:07–12:14 p.m.	Pilot (Aviation)	Helmet	MCA Hub
12:14–12:21 p.m.	Astronaut (Aviation)		MCA Hub
12:21–12:28 p.m.	Zoologist		107
12:28–12:35 p.m.	Chef		107
12:35–12:42 p.m.	Engineer		107

Group 2

Time	Subject	Activity	Location
12–12:07 p.m.	Astronaut (Aviation)		MCA Hub
12:07–12:14 p.m.	Education	Book reading	MCA Hub
12:14–12:21 p.m.	Pilot (Aviation)	Helmet	MCA Hub
12:21–12:28 p.m.	Chef		107
12:28–12:35 p.m.	Engineer		107
12:35–12:42 p.m.	Zoologist		107

Group 3

Time	Subject	Activity	Location
12–12:07 p.m.	Astronaut (Aviation)		MCA Hub
12:07–12:14 p.m.	Education	Book reading	MCA Hub
12:14–12:21 p.m.	Pilot (Aviation)	Helmet	MCA Hub
12:21–12:28 p.m.	Zoologist		107
12:28–12:35 p.m.	Chef		107
12:35–12:42 p.m.	Engineer		107

Group 4

Time	Subject	Activity	Location
12-12:07 p.m.	Chef		107
12:07-12:14 p.m.	Engineer		107
12:14-12:21 p.m.	Zoologist		107
12:21-12:28 p.m.	Education	Book reading	MCA Hub
12:28-12:35 p.m.	Pilot (Aviation)	Helmet	MCA Hub
12:35-12:42 p.m.	Astronaut (Aviation)		MCA Hub

Group 5

Time	Subject	Activity	Location
12-12:07 p.m.	Engineer		107
12:07-12:14 p.m.	Zoologist		107
12:14-12:21 p.m.	Chef		107
12:21-12:28 p.m.	Pilot (Aviation)	Helmet	MCA Hub
12:28-12:35 p.m.	Astronaut (Aviation)		MCA Hub
12:35-12:42 p.m.	Education	Book reading	MCA Hub

Group 6

Time	Subject	Activity	Location
12-12:07 p.m.	Zoologist		107
12:07-12:14 p.m.	Chef		107
12:14-12:21 p.m.	Engineer		107
12:21-12:28 p.m.	Astronaut (Aviation)		MCA Hub
12:28-12:35 p.m.	Education	Book reading	MCA Hub
12:35-12:42 p.m.	Pilot (Aviation)	Helmet	MCA Hub

IPS SCOPE AND SEQUENCE

Grade 2

Within the framework, each grade level focuses on a Kansas Career Cluster. The developmental focus for second-grade includes career recognition, number sense, safety and natural forces.

CAREER CLUSTERS: BUSINESS, MEDIA TECHNOLOGY

Career Exploration

Led by teacher in classroom

Example Lesson Resources:

- [Code.org](#)³

Example Activity:

- Explore, play, build with robots.

HirePaths Explore Careers videos:

- [Business](#)⁴⁶
- [Technology](#)⁴⁷

HirePaths Cool Careers videos:

- [Drone pilot](#)⁴⁸
- [Robotics](#)⁴⁹

Vocabulary

- Camera
- Lens
- Drone

Led by high school students in second-grade classroom

Example Activity:

- Students bring three cameras for stations with Legos, hula hoops or a book and show students how to film wide, closeup and medium range shots.

Led by High School Students in their CTE classroom

Example Activities:

- “Lights, Camera, Action” activity where students work in the broadcast studio to film their tall tales and fairy tales they wrote in English language arts (ELA) class. Second-grade students work in the control room, at the anchor desk, in front of the green screen and behind the camera.
- Fly drones with second-grade students.

Community Activities

- Tour the newspaper office
- Tour a news station
- Tour city hall
- Bring a guest speaker from media into the classroom (local meteorologist, news anchor)



IPS SCOPE AND SEQUENCE

Grade 3

Within the framework, each grade level focuses on a Kansas Career Cluster. The developmental focus for third-grade includes problem solving, fractions and decimals, coding, and types of energy.

CAREER CLUSTERS: AGRICULTURE, PRODUCTION AND REPAIR Career Exploration

Led by teacher in classroom

Example Lesson Resources:

- [National Agriculture in the Classroom lessons](#) (agclassroom.org)²

Example Activities:

- [Design and build a miniature greenhouse](#)⁵⁰
- [Design and build a miniature farm](#)⁵¹

HirePaths Cool Careers videos:

- [Agronomist](#)⁵²
- [Dairy farmer](#)⁵³
- [Sheet metal mechanic](#)⁵⁴
- [Electrical process engineer](#)⁵⁵

HirePaths Explore Careers videos:

- [Manufacturing](#)⁵⁶
- [Aviation](#)⁵⁷
- [Construction](#)⁵⁸

Vocabulary:

- Blueprints
- Drill

Led by high school students in third-grade classroom

Example Lesson Resources:

- [National Agriculture in the Classroom lessons](#) (agclassroom.org)²

Example Activities:

- Bring safety glasses, wood, drills, predrilled sheet metal and rivets to let third-grade students use tools.
- Build simple birdhouses.

Led by High School Students in their CTE classroom

Example Activity: “Grow Build, Create”

- “Grow, Build, Create” activity where third-grade students explore careers in agriculture, aviation, manufacturing, construction and engineering. (See schedule template on page 22.)
- Activities include:
 - Petting lambs and goats.
 - Riveting into pre-drilled sheet metal
 - Building with building kits.
 - Planting seeds.
 - Coding robots.

Community Activities

- Visit school district’s maintenance shop.
- Host touch-a-truck/big truck event.
- STEAM Carnival: Set up expo stations for students and families to try different labs.



Grow, Build, Create Schedule Template

Monday, Nov. 27, 2023

5 Groups

9–11 a.m.

Group 1

Time	Subject	Location
9:04–9:24 a.m.	Plant Science	109
9:27–9:47 a.m.	Architecture	107
9:50–10:10 a.m.	Airplane Build	111
10:13–10:33 a.m.	Steam	123
10:36–10:56 a.m.	Animal Science	MCA Hub

Group 2

Time	Subject	Location
9:04–9:24 a.m.	Architecture	107
9:27–9:47 a.m.	Airplane Build	111
9:50–10:10 a.m.	Steam	123
10:13–10:33 a.m.	Animal Science	MCA Hub
10:36–10:56 a.m.	Plant Science	109

Group 3

Time	Subject	Location
9:04–9:24 a.m.	Airplane Build	111
9:27–9:47 a.m.	Steam	123
9:50–10:10 a.m.	Animal Science	MCA Hub
10:13–10:33 a.m.	Plant Science	109
10:36–10:56 a.m.	Architecture	107

Group 4

Time	Subject	Location
9:04–9:24 a.m.	Steam	123
9:27–9:47 a.m.	Animal Science	MCA Hub
9:50–10:10 a.m.	Plant Science	109
10:13–10:33 a.m.	Architecture	107
10:36–10:56 a.m.	Airplane Build	111

Group 5

Time	Subject	Location
9:04–9:24 a.m.	Animal Science	MCA Hub
9:27–9:47 a.m.	Plant Science	109
9:50–10:10 a.m.	Architecture	107
10:13–10:33 a.m.	Airplane Build	111
10:36–10:56 a.m.	Steam	123

IPS SCOPE AND SEQUENCE

Grade 4

Within the framework, each grade level focuses on a Kansas Career Cluster. The developmental focus for fourth-grade includes problem solving, fractions and decimals, coding, and types of energy.

CAREER CLUSTERS: HEALTH SCIENCE, FAMILY AND CONSUMER SCIENCE

Career Exploration

Led by teacher in classroom

Example Activities:

- Thank you cards for first responders.
- [Run a class lemonade stand](#).¹⁴
- Take students to observe and interact with students in younger grades.
- Make no-bake cookies in the classroom.
- [Flower dissection](#).⁵⁹
- [Yeast experiment](#).⁶⁰
- logo recognition:
 - Police
 - Fire
 - EMS

HirePaths Cool Careers videos:

- [Restaurant manager](#).⁶¹
- [Registered nurse](#).³⁸
- [Elementary teacher](#).⁶²
- [Early childhood teacher](#).⁶³

HirePaths Explore Careers videos:

- [Culinary and Food Service](#).⁶⁴
- [Medical](#).⁶⁵

Vocabulary:

- Left and right ventricles.

Led by high school students in fourth-grade classroom

Example Activities:

- Make thank you cards for first responders.
- Show elementary students how to take their resting heart rate and their active heart rate.
- Make no bake cookies in the classroom.

Led by High School Students in their CTE classroom

Example Activity: Career Exploration Event

- Exploration career event where fourth-grade students explore careers in public services and health. In alignment with English language arts (ELA) standards on literal and figurative language, students complete hands-on activities centered around the heart. Activities include making heart healthy fruit parfaits, dissecting a sheep's heart, taking resting and active heart rate measurements, touring emergency vehicles, and making thank you cards for first responders. (See sample schedule on page 25.)

Community Activities

- Visit police station, fire station.
- Visit medical clinic.
- Tour the school lunchroom and learn about meal preparation.
- Visit local coffee shop.



Sample Schedule Template

Thursday, Jan. 25

5 Groups

12:30-2:30 p.m.

Group 1

Time	Subject	Location
12:34–12:54 p.m.	First Responders	107
12:57–1:17 p.m.	Heart Healthy Snacks	Room 110A
1:20–1:40 p.m.	Sheep's Heart Dissection	Room 121
1:43–2:03 p.m.	Vitals	Room 120
2:06–2:26 p.m.	Thank you Cards for First Responders	

Group 2

Time	Subject	Location
12:34–12:54 p.m.	Heart Healthy Snacks	Room 110A
12:57–1:17 p.m.	Sheep's Heart Dissection	Room 121
1:20–1:40 p.m.	Vitals	Room 120
1:43–2:03 p.m.	Thank you Cards for First Responders	
2:06–2:26 p.m.	First Responders	107

Group 3

Time	Subject	Location
12:34–12:54 p.m.	Sheep's Heart Dissection	Room 121
12:57–1:17 p.m.	Vitals	Room 120
1:20–1:40 p.m.	Thank you Cards for First Responders	
1:43–2:03 p.m.	First Responders	107
2:06–2:26 p.m.	Heart Healthy Snacks	Room 110A

Group 4

Time	Subject	Location
12:34–12:54 p.m.	Vitals	Room 120
12:57–1:17 p.m.	Thank you Cards for First Responders	
1:20–1:40 p.m.	First Responders	107
1:43–2:03 p.m.	Heart Healthy Snacks	Room 110A
2:06–2:26 p.m.	Sheep's Heart Dissection	Room 121

Group 5

Time	Subject	Location
12:34–12:54 p.m.	Thank you Cards for First Responders	
12:57–1:17 p.m.	First Responders	107
1:20–1:40 p.m.	Heart Healthy Snacks	Room 110A
1:43–2:03 p.m.	Sheep's Heart Dissection	Room 121
2:06–2:26 p.m.	Vitals	Room 120

IPS SCOPE AND SEQUENCE

Grade 5

The developmental focus for fifth-grade includes identifying interests, technical reading and applied math.

CAREER CLUSTERS: ALL

Career Discovery

Individual Discovery

Example Activities:

- Participation in clubs related to career interests (e.g., drones, robotics, cooking, journalism).
- Visual interest inventory.
- Employability skills activities.

Career Discovery

Example Lesson Resources:

- [Starbase](#)⁶⁶
- Energy activity: [KidWind — Teaching the World about Renewables](#)⁶⁷

Example Activities:

- “Tool-based” career fair where students and families can hold tools and items related to career fields.
- Host a career event where students can experience a hands-on activity associated with each cluster (e.g., engineering – programming LED lights; construction – drilling wood; agriculture – feed identification; broadcasting – camera shots; law and public safety – fingerprint lab, etc.) (See sample schedule page 28.).
- Computer science activity: Host a code night workshop.

Competency and Skill Development

Example Activities:

- Application of tool knowledge.
- Coding
- Automation



Climb Far at Maize South Intermediate Sample Schedule

Wednesday, March 6, 2024

4 Groups

60 minutes total

15 minutes/activity

- Engineering/Computer Science Activity: LED lights
- Industrial Arts/Agriculture: Drilling wood and feed identification
- Broadcasting Activity: Camera shots
- Health Science Terminology/Law, Public Safety and Security (LPSS) Activity: Fingerprint Lab

Session 1

75 students

8:28–9:28 a.m.

Group A

Time	Activity
8:28–8:43 a.m.	Engineering/Computer Science
8:43–8:58 a.m.	Agriculture/Industrial Arts
8:58–9:13 a.m.	Drones/Broadcasting
9:13–9:28 a.m.	Health Science/LPSS

Group B

Time	Activity
8:28–8:43 a.m.	Agriculture/Industrial Arts
8:43–8:58 a.m.	Drones/Broadcasting
8:58–9:13 a.m.	Health Science/LPSS
9:13–9:28 a.m.	Engineering/Computer Science

Group C

Time	Activity
8:28–8:43 a.m.	Drones/Broadcasting
8:43–8:58 a.m.	Health Science/LPSS
8:58–9:13 a.m.	Engineering/Computer Science
9:13–9:28 a.m.	Agriculture/Industrial Arts

Group D

Time	Activity
8:28–8:43 a.m.	Health Science/LPSS
8:43–8:58 a.m.	Engineering/Computer Science
8:58–9:13 a.m.	Agriculture/Industrial Arts
9:13–9:28 a.m.	Drones/Broadcasting

Session 2

75 students

9:31–10:31 a.m.

Group A

Time	Activity
9:31–9:46 a.m.	Engineering/Computer Science
9:46–10:01 a.m.	Agriculture/Industrial Arts
10:01–10:16 a.m.	Drones/Broadcasting
10:16–10:31 a.m.	Health Science/LPSS

Group B

Time	Activity
9:31–9:46 a.m.	Agriculture/Industrial Arts
9:46–10:01 a.m.	Drones/Broadcasting
10:01–10:16 a.m.	Health Science/LPSS
10:16–10:31 a.m.	Engineering/Computer Science

Group C

Time	Activity
9:31–9:46 a.m.	Drones/Broadcasting
9:46–10:01 a.m.	Health Science/LPSS
10:01–10:16 a.m.	Engineering/Computer Science
10:16–10:31 a.m.	Agriculture/Industrial Arts

Group D

Time	Activity
9:31–9:46 a.m.	Health Science/LPSS
9:46–10:01 a.m.	Engineering/Computer Science
10:01–10:16 a.m.	Agriculture/Industrial Arts
10:16–10:31 a.m.	Drones/Broadcasting

Session 3

50 students

10:34–11:34 a.m.

Group A

Time	Activity
10:34–10:49 a.m.	Engineering/Computer Science
10:49–11:04 a.m.	Agriculture/Industrial Arts
11:04–11:19 a.m.	Drones/Broadcasting
11:19–11:34 a.m.	Health Science/LPSS

Group B

Time	Activity
10:34–10:49 a.m.	Agriculture/Industrial Arts
10:49–11:04 a.m.	Drones/Broadcasting
11:04–11:19 a.m.	Health Science/LPSS
11:19–11:34 a.m.	Engineering/Computer Science

Group C

Time	Activity
10:34–10:49 a.m.	Drones/Broadcasting
10:49–11:04 a.m.	Health Science/LPSS
11:04–11:19 a.m.	Engineering/Computer Science
11:19–11:34 a.m.	Agriculture/Industrial Arts

Group D

Time	Activity
10:34–10:49 a.m.	Health Science/LPSS
10:49–11:04 a.m.	Engineering/Computer Science
11:04–11:19 a.m.	Agriculture/Industrial Arts
11:19–11:34 a.m.	Drones/Broadcasting

Session 4

50 students

12:17–1:17 p.m.

Group A

Time	Activity
12:17–12:32 p.m.	Engineering/Computer Science
12:32–12:47 p.m.	Agriculture/Industrial Arts
12:47–1:03 p.m.	Drones/Broadcasting
1:03–1:17 p.m.	Health Science/LPSS

Group B

Time	Activity
12:17–12:32 p.m.	Agriculture/Industrial Arts
12:32–12:47 p.m.	Drones/Broadcasting
12:47–1:03 p.m.	Health Science/LPSS
1:03–1:17 p.m.	Engineering/Computer Science

Group C

Time	Activity
12:17–12:32 p.m.	Drones/Broadcasting
12:32–12:47 p.m.	Health Science/LPSS
12:47–1:03 p.m.	Engineering/Computer Science
1:03–1:17 p.m.	Agriculture/Industrial Arts

Group D

Time	Activity
12:17–12:32 p.m.	Health Science/LPSS
12:32–12:47 p.m.	Engineering/Computer Science
12:47–1:03 p.m.	Agriculture/Industrial Arts
1:03–1:17 p.m.	Drones/Broadcasting

IPS SCOPE AND SEQUENCE

Grade 6

The developmental focus for sixth-grade includes identifying interests, technical reading and applied math.

CAREER CLUSTERS: ALL

Career Discovery

Individual Discovery

Example Activities:

- Participation in clubs related to career interests (e.g., drones, robotics, cooking, journalism).
- Visual interest inventory.
- Employability skills activities.

Career Discovery

Example Lesson Resource:

- Energy activity: [KidWind — Teaching the World about Renewables](#)⁴¹

Example Activities

- “Tool-based” career fair where students and families can hold tools and items related to career fields.
- Host a career event where students can experience a hands-on activity associated with each cluster (e.g., engineering – programming LED lights; construction – drilling wood; agriculture – feed identification; broadcasting – camera shots; law and public safety – fingerprint lab, etc.) (See sample schedule page 28.).
- Computer science activity: Host a code night workshop.

Competency and Skill Development

Example Activities:

- Application of tool knowledge.
- Coding
- Automation



IPS SCOPE AND SEQUENCE

Grade 7

The developmental focus for seventh-grade includes identifying interests, technical reading, and applied math.

CAREER CLUSTERS: ALL

Career Discovery

Individual Discovery

Example Activity:

- Tour high school CTE courses/labs and participate in an activity (e.g., digital media – students learn to create a simple website; culinary – students make a no bake treat; health science – students learn how to take vital signs).

Career Discovery

- Students learn about CTE courses offered in eighth grade.
- Students set goals and create an academic plan for eighth grade.
- Computer science activity: Host a code night workshop.

Competency and Skill Development

- Students take a middle school career exploration course.
- Applied math.
- Technical reading.



IPS SCOPE AND SEQUENCE

Overview Grades 8-12

The purpose of this document is to support schools and districts to implement Individual Plan of Study (IPS) practices that are grade-level appropriate and match the Kansas Career Development Process that features key Kansans Can Competencies. This information is a framework for each grade that lists the developmental focus of each grade level and describes activities students may engage in during that year. This framework is based on the Kansas Career Development Process Model found in the [IPS Digital Reference Guide](#)¹ (KSDE, 2023). There are four domains in which activities fall:

- Individual discovery
- Career discovery
- Goal setting and academic planning
- Competency and skill development.

Each developmental focus includes activities in all four domains.

Within the framework, each grade level features a range of specific activities that connect to each of the categories. The following are, examples of activities and measures for each grade. These activities are drawn from examples found in scope and sequence documents created by schools and districts in Kansas.

IPS SCOPE AND SEQUENCE

Grade 8

IDENTIFY YOUR INTERESTS

Individual Discovery

(IPS activity)

Students will engage in activities to learn about personal strengths and interests.

EXAMPLE ACTIVITIES:

- Explore career matches.
- Interest inventories.
- Explore learning styles.
- Explore personality styles.

EXAMPLE MEASURES:

- Completed online career matching activity.
- Completed online interest inventory.
- Completed online lesson on learning styles comparison.
- Completed online lesson on personality styles.



Career Discovery

(IPS outcomes)

Students will be exposed to a variety of different careers.

EXAMPLE ACTIVITIES:

- Explore workplace values.
- Explore needed workplace skills.
- Explore career factors.
- [Kansas Career Cluster Infographic](#).⁶⁸
- [Kansas Work-Based Learning \(WBL\) Continuum](#)⁶⁹ experiences.

EXAMPLE MEASURES:

- Completed online lesson on work values.
- Completed online lesson on workplace skills and attitudes.
- Completed online lesson on career factors.
- Completed online lesson on career clusters.
- Participate in [Kansas WBL Continuum](#)⁶⁹ experiences.

Goal Setting and Academic Planning

(Shorter term outcomes)

Students will develop a four-year course plan to align with skills and interests.

EXAMPLE ACTIVITIES:

- Learn about SMART goals.
- Create a course plan.
- Learn high school transition planning.
- Learn about postsecondary pathways.
- Learn about specialty high schools.
- Pre-ACT®/SAT testing.
- [Create/update an electronic portfolio](#).⁷⁰

EXAMPLE MEASURES:

- Submission of a SMART goal.
- Developed a four-year course plan.
- Completed high school transition reflection.
- Identified postsecondary plan for two years following graduation.
- Completed specialty high school reflection.
- Pre-ACT®/SAT Completion.
- [Submitted electronic portfolio](#).⁷¹

Competency and Skill Development

(Medium term outcomes)

Students will be exposed to skills that will help them succeed in the workplace.

EXAMPLE ACTIVITIES:

- Learn study skills and habits.
- Learn about self-advocacy.
- Learn about decision making.
- Explore Career and Technical Education (CTE) courses.
- Conduct/attend student-led conferences.

EXAMPLE MEASURES:

- Completed online lesson on study skills and habits.
- Completed online lesson on self-advocacy.
- Completed online lessons on decision making.
- Completed CTE reflection.
- Completion of student-led conference(s).

IPS SCOPE AND SEQUENCE

Grade 9

KNOW YOURSELF

Individual Discovery

(IPS activity)

Students will engage in activities to learn more about themselves and identify their interests.

EXAMPLE ACTIVITIES:

- Explore career matches.
- Explore learning styles.
- Explore personality styles.

EXAMPLE MEASURES:

- Completed online career matching activity.
- Completed online lesson on learning styles completion.
- Completed online lesson on personality styles.



Career Discovery

(IPS outcomes)

Students will learn about different careers that are suited towards their interests.

EXAMPLE ACTIVITIES:

- Explore workplace values.
- Explore needed workplace skills.
- Career interest profiler.
- Create/update a resume.
- [Kansas WBL Continuum](#)⁶⁹ experiences.

EXAMPLE MEASURES:

- Completed online lesson on work values.
- Completed online lesson on workplace skills and attitudes.
- Completed online career interest profiler activity.
- Participation in [Kansas WBL Continuum](#)⁶⁹ experiences.

Goal Setting and Academic Planning

(Shorter term outcomes)

Students will learn about effective goal setting and apply those goals to their four-year plan.

EXAMPLE ACTIVITIES:

- Learn about SMART goals.
- Identify academic goal(s).
- Identify career goal(s).
- Create a course plan.
- Learn about postsecondary pathways.
- Review graduation requirements.
- Pre-ACT®/SAT Testing.
- [Create/update an electronic portfolio](#).⁷⁰

EXAMPLE MEASURES:

- Submitted a SMART goal.
- Identified academic goals.
- Identified career goals.
- Developed a four-year course plan.
- Developed a postsecondary plan.
- Counselor classroom visits.
- Pre-ACT®/SAT completion.
- [Submitted electronic portfolio](#).⁷¹

Competency and Skill Development

(Medium term outcomes)

Students will have opportunities to identify and build upon their own strengths, values and interests.

EXAMPLE ACTIVITIES:

- Take employability skills assessment.
- [Concurrent/dual enrollment](#).⁷²
- Take Advanced Placement® (AP®)/International Baccalaureate® (IB®) courses.
- [Kansans Can Competencies](#)⁷³ skill development.
- Explore CTE courses.
- Conduct/attend student-led conferences.

EXAMPLE MEASURES.

- Completed employability skills assessment.
- [Concurrent/dual credits](#)⁷² earned.
- AP®/IB® credits earned
- Completed [Kansans Can Competencies](#)⁷³ assessment.
- Completed CTE reflection.
- Completion of student-led conference(s).

IPS SCOPE AND SEQUENCE

Grade 10

EXPLORE YOUR OPTIONS

Individual Discovery

(IPS activity)

Students will engage in activities to learn about their own work values and careers they may find satisfying.

EXAMPLE ACTIVITIES:

- Explore learning styles.
- Explore career options based on interests.
- Learn about labor market trends.
- Compare colleges using [Degree Stats lesson](#).⁷⁴
- [Explore Armed Services of the U.S. military](#).⁷⁵

EXAMPLE MEASURES:

- Completed online lesson on learning styles.
- Completed online lesson on careers and lifestyle costs.
- Used [U.S. Bureau of Labor Statistics](#)⁷⁶ to research market trends in a career of interest.
- Used Kansas Department of Labor (KDOL) [High Demand Occupations website](#)⁷⁹ to research occupations sorted by CTE cluster/pathway.
- Completed comparison of Kansas colleges using [Degree Stats lesson](#).⁷⁴
- Find earning potential of [military branches](#).⁷⁵

Career Discovery

(IPS outcomes)

Students will be exposed to career pathways to help them understand the available options.

EXAMPLE ACTIVITIES:

- Explore workplace values.
- Explore needed workplace skills.
- Explore career options best suited towards interests and values.
- Create/update resume.
- [Kansas WBL Continuum](#)⁶⁹ experiences

EXAMPLE MEASURES:

- Completed online lesson on work values.
- Completed online lesson on workplace skills and attitudes.
- Completed financial literacy simulation.
- Career fair attendance.
- Submitted resumé.
- Participation in [Kansas WBL Continuum](#)⁶⁹ experiences



Goal Setting and Academic Planning

(Shorter term outcomes)

Students will set college and/or career goals that reflect their interests.

EXAMPLE ACTIVITIES:

- Learn about SMART goals.
- Set academic goal(s).
- Set career goal(s).
- Create a course plan.
- Participate in a one-on-one counseling discussion to examine how academic performance aligns with career goals.
- Create/update a postsecondary plan.
- Attend a college fair.
- Learn about college majors/programs.
- Meet with a college admissions advisor.
- Attend college admissions visit.
- **Create/update an electronic portfolio.**⁷⁰

EXAMPLE MEASURES:

- Submission of a SMART goal.
- Developed academic goal(s).
- Developed career goal(s).
- Completed course planner activity.
- Confirmation of course enrollment.
- Counselor-reported meeting notes.
- Submitted postsecondary plan.
- Completed online lesson about program aspects.
- College fair attendance.
- College visit attendance.
- **Submitted electronic portfolio.**⁷¹

Competency and Skill Development

(Medium term outcomes)

Students will identify and have opportunities to build the skills needed to explore pathways of interest.

EXAMPLE ACTIVITIES:

- **Kansas WBL Continuum**⁶⁹ experiences.
- Employability skills assessment.
- **Concurrent/dual credits**⁷⁴ enrollment.
- AP® /IB® courses.
- **Kansans Can Competencies**⁷⁵ skill development.
- Conduct/attend student-led conferences.
- Complete Accuplacer or entrance testing for technical/community college.

EXAMPLE MEASURES:

- Participation in **Kansas WBL Continuum**⁶⁹ experiences.
- Completed employability skills assessment.
- **Concurrent/dual credits**⁷⁴ earned.
- AP®/IB® credits earned.
- Completed **Kansans Can Competencies**⁷⁵ assessment.
- Completion of student-led conference(s).
- Review Accuplacer results.

IPS SCOPE AND SEQUENCE

Grade 11

MAKE CHOICES

Individual Discovery

(IPS activity)

Students will engage in activities to learn about decision-making strategies and identify what they want to do.

EXAMPLE ACTIVITIES:

- Explore postsecondary education options.
- Compare career areas using [Kansas Training Information Program \(K-TIP\)](#).⁷⁷
- Reflect on career choices and learn to describe the “why.”
- Explore personality styles.
- Explore work/life balance.
- Explore potential lifestyle choices.

EXAMPLE MEASURES:

- Completed online college choice activity.
- Submit comparison of [college completion rates](#)⁷⁸ by career area.
- Reflection journal/activity or online reflection completion.
- Completed online lesson on lifestyles.
- Completed online lesson about work/life balance.



Career Discovery

(IPS outcomes)

Students will select career pathways of interest.

EXAMPLE ACTIVITIES:

- Learn about career, college and military postsecondary options.
- Create/update resume.
- Interview people in career(s) of interest.
- Prepare for job interviews.
- Learn about [demand for career\(s\)](#)⁷⁹ of interest.

EXAMPLE MEASURES:

- Career, college and military informational session attendance.
- Resume submission.
- Cover letter submission.
- Completed reflection on informational interview.
- Job interview attendance.
- Completed online lesson about career demands.
- Used KDOL [High Demand Occupations website](#)⁸⁰ to identify local career demands.

Goal Setting and Academic Planning

(Shorter term outcomes)

Students will develop a postsecondary plan and set goals relevant to their career pathway of interest.

EXAMPLE ACTIVITIES:

- Set/update academic goal(s).
- Set/update career goal(s).
- Create/update a course plan.
- Create/update a postsecondary plan.
- Participate in a one-on-one counseling discussion to examine how academic performance aligns with career goals.
- Identify list of colleges to apply.
- Identify possible scholarships.
- Identify [financial aid](#)⁸⁰ resources.
- Update progress on goals.
- Attend college field trip/tour campuses.
- Create [BRAG](#)⁸¹ sheet.
- [Create/update an electronic portfolio](#).⁷²

EXAMPLE MEASURES:

- Developed/updated academic goal(s).
- Developed/updated career goal(s).
- Submitted postsecondary plan.
- Submitted counselor-reported meeting notes.
- Completed online lesson on identifying colleges of interest.
- Completed online lesson on identifying scholarships.
- [Financial aid informational session](#)⁸² attendance.
- Completed goal progress reflection.
- College field trip attendance.
- Submitted [BRAG](#)⁸² sheet.
- [Submitted electronic portfolio](#).⁷¹

Competency and Skill Development.

(Medium term outcomes)

Student will be exposed to career decision-making lessons and will practice making choices.

EXAMPLE ACTIVITIES:

- Take CTE courses or assessments.
- Take [ACT^{®83}](#) and [ACT[®] Work Keys^{®. 84}](#)
- [Concurrent/dual⁷²](#) enrollment.
- AP[®]/IB[®] Courses.
- [Kansas WBL Continuum⁶⁹](#) experiences.
- Practice professional communication skills.
- Conduct/attend student-led conference.
- Learn about entrepreneurial skills.

EXAMPLE MEASURES:

- CTE credentials of course credits earned.
- Completion of exam/exam score.
- [Concurrent/dual credits⁷²](#) earned.
- AP[®]/IB[®] credits earned.
- Attained industry-recognized credential.
- Participation in [Kansas WBL Continuum⁶⁹](#) experiences.
- Completed online lesson about communication skills.
- Completion of student-led conference(s).
- Completed online lesson about entrepreneurial skills.

IPS SCOPE AND SEQUENCE

Grade 12

TAKE ACTION

Individual Discovery

(IPS activity)

Students will engage in activities that help them follow through on decisions.

EXAMPLE ACTIVITIES:

- Define personal success.
- Volunteer.
- Leadership opportunities.
- Mentoring.

EXAMPLE MEASURES:

- Completed online lesson about defining success.
- Completed reflection on volunteer experience.
- Leadership recognition.



Career Discovery

(IPS outcomes)

Students will commit to a choice of a career pathway and take appropriate steps to accomplish goals (e.g., enrollment, application).

EXAMPLE ACTIVITIES:

- Create career backup plan.
- Job interviews.
- Identify career path references.
- Create own definition of career success.
- Update resume.
- Set/update career goals.
- Apply to jobs.
- Create work examples.
- Finalize career plan.

EXAMPLE MEASURES:

- Completed online lesson on career backup plans.
- Job interview attendance.
- Completed online lesson about career choices.
- Completed online lesson about career success.
- Resume submission.
- Career goal submission.
- Completed career goal reflection.
- Submitted job applications.

Goal Setting and Academic Planning

(Shorter term outcomes)

Students will work to achieve their goals and monitor their progress.

EXAMPLE ACTIVITIES:

- Create/update postsecondary goals.
- Apply to colleges/postsecondary institutions.
- Attend college admissions visits.
- Select a school.
- Log scholarships.
- Create financial aid plan.
- [Complete electronic portfolio](#).⁷¹

EXAMPLE MEASURES:

- Submitted postsecondary goals.
- Completed college applications.
- Attended college admission visits.
- Submitted scholarship log.
- Attended FAFSA® night.
- Completed [FAFSA](#)®⁸² and [Kansas Apply Free Day](#)⁸⁵ application.
- [Electronic portfolio](#).⁷¹ presentation.

Competency and Skill Development

(Medium term outcomes)

Students will learn how to market themselves and take opportunities to achieve their goals.

EXAMPLE ACTIVITIES:

- CTE real-world application courses.⁸⁶
- Concurrent/dual enrollment.⁷²
- AP[®]/IB[®] courses.
- Kansas WBL Continuum⁶⁹ experiences.
- Employability skills assessment.
- Prepare elevator pitch.⁸⁷
- Career decision-making courses.
- Complete assessments related to the goals in each student's IPS.

EXAMPLE MEASURES:

- Earned CTE completer⁸⁷ status.
- Concurrent/dual credits⁶ credits earned.
- AP[®]/IB[®] credits earned.
- Attained industry-recognized credential.⁸⁸
- Participation in Kansas WBL Continuum⁶⁹ experiences.
- Employability skills assessment score.
- Presented elevator pitch.
- Completed online lesson on career decision-making.
- Exam completion/score.
- IPS Student Summary Form completion.

IPS SCOPE AND SEQUENCE

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