

Here's a step-by-step guide on how to use ChatGPT to create a lesson plan incorporating the NB Career Development Framework big ideas and outcomes with NB middle school curriculum:

Step 1: Prepare Your Inputs

Before starting, gather and organize the following:

- **Curriculum Objectives:** Refer to the NB middle school curriculum from the provided link. Identify the subject area and learning outcomes you want to focus on.
 - **Big Ideas and Outcomes:** From the NB Career Development Framework, select the relevant big ideas (e.g., "Exploring my potential career pathway"). You can also select the specific outcomes you want to target.
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Step 2: Ask ChatGPT to Create the Lesson Plan

You can use a detailed prompt to request the lesson plan. Here's a template:

"Create a middle school lesson plan for [subject, e.g., Social Studies] that incorporates the NB Career Development Framework's big ideas and outcomes, such as [specific outcomes, e.g., 'Developing an informed pathway plan for my future' and 'Understanding the range of post-secondary education opportunities'] with the NB curriculum objective [insert objective, e.g., 'analyzing the role of government in society'].

The plan should include:

- Objectives
 - Materials needed
 - Detailed step-by-step activities
 - Assessment methods
 - Real-world or experiential learning opportunities.
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Step 3: Refine the Lesson Plan

Once ChatGPT generates a lesson plan:

- Review the objectives to ensure alignment with your teaching goals.
- Ask for edits or enhancements. For example:
 - "Add an experiential learning activity related to [career pathway exploration]."
 - "Provide examples of guest speakers or field trip ideas for this lesson."
 - "Use the career ***** as an example"

Step 4: Request Supporting Materials

If needed, ask ChatGPT to create additional resources for your lesson, such as:

- Sample worksheets or templates (e.g., "Create a career pathway exploration worksheet").
- Discussion prompts or reflective questions.
- Assessment rubrics tailored to your lesson objectives.

Step 5: Finalize and Adapt

Use ChatGPT to refine or adjust the plan as needed:

- "Condense the plan into a 30-minute version."
- "Adapt the plan for a virtual classroom setting."

Here's an example of how you can use ChatGPT to generate a detailed lesson plan:

Prompt for ChatGPT

Create a detailed 60-minute lesson plan for a Grade 7 Social Studies class. The lesson should integrate the NB Career Development Framework big ideas, focusing on:

- "Exploring my potential career pathway" (e.g., investigating the labour market).
- "Thinking about my potential career pathway" (e.g., understanding how learning supports career pathways).

The lesson should also align with the NB Social Studies curriculum objective: "Analyze how local and global issues are interconnected and how they affect societies."

Include:

- Objectives (learning and career-related).
 - Materials needed.
 - A step-by-step activity plan with timing.
 - An experiential or real-world learning activity.
 - Assessment methods to evaluate student learning.
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Here's how ChatGPT might respond:

Sample Lesson Plan: Exploring Careers and Global Connections

Grade: 7

Subject: Social Studies

Duration: 60 minutes

Objectives

Learning Objectives

- Understand how local and global issues are interconnected and impact societies.
- Identify career pathways related to addressing global challenges, such as climate change or health crises.

Career-Related Objectives

- Explore potential career pathways in sustainability, health, or technology.
 - Understand how developing global competencies can open career opportunities.
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Materials Needed

- Projector/Smartboard.
 - Internet-connected devices for students (optional).
 - Handouts: Labour market information for related careers (e.g., renewable energy, public health).
 - Career exploration worksheet (created or requested from ChatGPT).
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Activity Plan

1. Introduction (10 minutes)

- Discuss how global challenges like climate change or pandemics impact local communities.
- Briefly explain how different careers (e.g., environmental scientist, healthcare worker) contribute to solving these challenges.

2. Group Activity: Career Connections (20 minutes)

- Divide students into small groups and assign each a global challenge (e.g., pollution, public health).

- Provide labour market data and career profiles for jobs that address these challenges.
- Ask groups to research and discuss:
 - What skills and education are needed for these careers?
 - How do these careers contribute to solving global issues?
 - Are there local opportunities or organizations related to these careers?

3. Class Discussion: Pathway Reflection (15 minutes)

- Groups present their findings to the class.
- Facilitate a discussion on:
 - How individual learning can prepare students for these careers.
 - The role of equity and access in pursuing such careers (e.g., education, representation).

4. Experiential Activity: Career Visioning (10 minutes)

- Students individually complete a worksheet reflecting on:
 - Their interests and values.
 - How their current learning might prepare them for a career connected to global issues.

Assessment

- Participation in group discussions and presentations.
- Completed reflection worksheet.
- Teacher observation of engagement during activities.

Would you like any adjustments to this example? For instance, a different subject, focus area, or more detail in a specific section?

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You said:

Could you also show an example connected to specific outcomes in the career framework?

ChatGPT said:

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Here's an updated example, directly linking the lesson to specific outcomes from the NB Career Development Framework:

Lesson Plan: Exploring Careers through Global Issues

Grade: 7

Subject: Social Studies

Duration: 60 minutes

Framework Connections

This lesson addresses the following NB Career Development Framework outcomes:

- **"Exploring my potential career pathway"**: Critically investigating labour market and career pathways.
 - **"Thinking about my potential career pathway"**: Understanding how learning helps secure a desirable career pathway and recognizing the importance of global competencies.
 - **"Developing an informed pathway plan"**: Connecting interests and skills to future opportunities.
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Objectives

Learning Objectives

- Analyze how global challenges (e.g., climate change, poverty, or health crises) connect to local communities and impact societies.
- Explore the interconnection between academic subjects and career pathways related to global challenges.

Career-Related Objectives

- Investigate labour market information for careers addressing global issues.
 - Understand how global competencies (e.g., critical thinking, collaboration, adaptability) relate to career success.
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Materials Needed

- Career pathway profiles (e.g., environmental scientists, policy analysts, healthcare workers).
 - Labour market data handouts (from NB or national resources).
 - Reflection worksheet linking interests and potential careers.
 - Internet-connected devices for research (optional).
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Activity Plan

1. Introduction: Setting the Stage (10 minutes)

- Open with a brief discussion: "How do global issues like climate change or public health crises affect your local community?"
- Share examples of local career pathways tied to global challenges (e.g., renewable energy jobs, healthcare roles).
- Explain the focus: connecting school learning, career opportunities, and global issues.

2. Group Activity: Investigating Career Pathways (20 minutes)

- Divide students into small groups. Assign each group a global issue (e.g., water scarcity, public health).
- Provide profiles of relevant careers and labour market data.
- Groups will answer these questions:
 - What are the primary roles of these careers?
 - What education, skills, and global competencies are required?
 - What local opportunities exist in these fields?

3. Career-Connected Reflection (20 minutes)

- Individually, students complete a worksheet:
 - Identify one career that interests them and explain why.
 - List the skills and education needed for that career.
 - Reflect on how their current learning connects to future success in this field.
- Optional: Students pair up to share their reflections.

4. Closing Discussion (10 minutes)

- Facilitate a class discussion on equity in career access:
 - How do societal factors (e.g., education access, representation) influence career opportunities?
 - What supports are available for pursuing different pathways?

Assessment Methods

- Participation in group research and discussions.
- Completeness and depth of individual reflections.
- Teacher observation of engagement with the activity.

Would you like further customization, such as additional examples of labour market data, links to real-world job resources, or alternative experiential activities?

Prompt:

This is the middle school math curriculum. <https://curriculum.nbed.ca/learning-areas/middle-block/mathematics/> I teach grade 6. I want to incorporate more career connected learning opportunities in my class. This is the career framework. read the middle block section to inform this work. <https://www2.gnb.ca/content/dam/gnb/Departments/ed/pdf/K12/FRL/nb-career-education-framework.pdf> I want to specifically develop a lesson that will align to the career framework and grade 6 math outcomes using a carpentry career example. Could you create a lesson for me?

Here's a proposed lesson plan that integrates Grade 6 math outcomes and aligns with the career framework using a carpentry career example.

Lesson Plan: Carpentry and Math in Action

Grade Level: 6

Subject: Mathematics

Topic: Measurement and Geometry

Career Connection: Carpentry

Duration: 60 minutes

Learning Outcomes

Math Curriculum Outcomes:

- Demonstrate an understanding of perimeter, area, and volume by solving problems.
- Apply measurements to solve practical, real-world problems.

Career Education Framework Goals:

- **Middle Block Focus:** Explore the connections between school subjects and real-world applications.
 - Understand the importance of precision, planning, and problem-solving in careers like carpentry.
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Lesson Objectives

By the end of this lesson, students will:

1. Apply perimeter, area, and volume concepts to design a wooden toolbox.
 2. Understand how carpenters use math in their daily work.
 3. Develop problem-solving skills and collaboration through hands-on activities.
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Materials Needed

- Grid paper
 - Rulers
 - Calculators
 - Wooden toolbox dimensions example sheet (or teacher-created handout)
 - Cardstock or thin cardboard for a scale model (optional)
 - Video or images showing carpenters at work (optional)
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Lesson Procedure

1. Introduction (10 minutes)

- **Engage Students:** Show a short video or images of carpenters creating wooden projects. Discuss the tools and skills carpenters use, emphasizing the role of math in measuring, planning, and creating.
 - **Connect to Career Framework:** Ask students how school subjects like math might help someone in this career. Discuss problem-solving, teamwork, and precision as essential skills for carpenters.
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2. Mini-Lesson: Key Concepts (15 minutes)

- **Review Measurements:**
 - Recap formulas for perimeter, area, and volume.
 - Use real-world examples related to carpentry, such as measuring the perimeter of a plank or calculating the area of a wooden panel.
 - **Introduce Toolbox Design Activity:**
 - Show an example of a simple toolbox design.
 - Provide the required dimensions (e.g., base dimensions: 20 cm x 15 cm; side height: 10 cm; handle diameter: 2 cm).
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3. Hands-On Activity: Design and Calculate (25 minutes)

- **Part 1: Design on Paper**
 - Have students sketch a top-down view and side view of their toolbox on grid paper.

- Students calculate the area of the base, the total surface area of the toolbox, and the volume of the space inside.
 - **Part 2: Optional Scale Model**
 - For a tactile learning experience, students can create a scale model of their toolbox using cardstock or thin cardboard.
 - **Part 3: Real-World Context**
 - Ask students to imagine they are carpenters building this toolbox for a customer. What materials would they need? How much wood would they use? Encourage them to calculate material costs if wood is priced per square meter.
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4. Wrap-Up and Discussion (10 minutes)

- **Reflection Questions:**
 - How did you use math to solve problems today?
 - Why do you think precision is important in carpentry?
 - What other school subjects do you think would be helpful for a carpenter?
 - **Connection to Career Framework:** Highlight the problem-solving, creative thinking, and practical applications of math they demonstrated, linking it to essential career skills in carpentry.
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Assessment

- Review students' toolbox designs and calculations for accuracy.
 - Observe participation and problem-solving during the activity.
 - Use reflective discussions to assess understanding of the career connection.
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Extensions and Modifications

- **For Advanced Learners:** Introduce cost estimation by factoring in different materials and waste percentages.
 - **For Struggling Learners:** Provide pre-drawn templates or examples to guide them through calculations.
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This lesson provides a meaningful connection between Grade 6 math outcomes and the carpentry career, encouraging students to see the real-world relevance of their learning. Let me know if you'd like any further adjustments or additions!