

## Lesson **Design a Food Delivery App** for 9-10th

### **PBL: TikTok Your Community Delivery App**

Create a **community-sharing delivery app** and explain how it works in a **short, engaging TikTok video**?

#### **How to do it**

You've learned how food delivery apps work:

- Using **GPS coordinates** to know where the person and item are
- **Route optimization**: fastest vs shortest path
- **Traffic data integration**: predicting slowdowns or busy areas
- **Predictive modeling**: estimating best delivery times
- Handling multiple users with the same resource

Now, imagine an app for your **own community**, not just food. It could deliver:

- Borrowable tools (snow shovels, bikes, umbrellas)
- Study materials or stationery
- Shared games or sports equipment

#### **Task Instructions**

1. **Concept**: Decide the main purpose of your app.
  - What items will your community share?
  - Who can request or lend items?
2. **App Workflow**:
  - How **someone requests and receives an item**
  - How the app **chooses the best lender/delivery**
  - How the app **uses concepts from the lesson** (coordinates, speed/distance, traffic)
3. **TikTok Video Elements**: Make it **fun and short (30–60 sec)**
  - Introduce the problem (“Need a snow shovel?”)
  - Show your app interface/screenshots (real or drawn)
  - Highlight cool features (traffic prediction, multiple delivery options)
  - End with a catchy tagline

**Upload:** Video made by you or Hand-drawn screens and narration script

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