

## *Iqbal and His Ingenious Idea*: Classroom Activity for Early Years

### INTRODUCTION

Accompanied by a read-aloud of *Iqbal and His Ingenious Idea*, students will use problem solving skills and collaboration to identify problems in their immediate community that could benefit from their own ingenious, sustainable invention.

### LENGTH

- 45-60 minutes

### MATERIALS

- *Iqbal and His Ingenious Idea* by Elizabeth Suneby (physical copy or read aloud version on YouTube)
- Chart paper or white board
- Invention worksheet (below)
- Pencil crayons

### INSTRUCTIONS

1. Begin by reading *Iqbal and His Ingenious Idea* by Elizabeth Suneby
2. After reading, facilitate a group discussion by asking:
  - a. What did you notice about Iqbal's home?
  - b. Why was Iqbal's mom cooking indoors? What are good things about cooking indoors? What are bad things about cooking indoors?
  - c. What were the materials used for Iqbal's invention (*foil-lined umbrella*)
  - d. How could Iqbal's invention help his family and many others? (*helps the environment, reduces health problems, makes everyday chores less harmful/difficult, empowers women & girls, increases safety, saves money*)
3. Set up chart paper or turn to a white board. As a group, identify daily problems at home or school that could use a solution. A t-chart or mind map can be a way to organize ideas and strategies.
4. Once the group has come up with some daily problems at home or school, it is time to think of potential solutions. Prompt students by asking:
  - a. How can your invention be safe? Helpful? Sustainable?
  - b. What types of materials did Iqbal use?
  - c. How did he gather those materials?



## *Iqbal and His Ingenious Idea: IDW Classroom Activity for Early Years*

- d. What are some materials you can reuse for your invention?
5. Have students work individually to fill out the provided worksheet at their table and encourage referencing back to the mind map or t-chart.
6. Teachers are encouraged to use this workshop/lesson as a pre-teaching tool or add on activity and allow students to create a plan to make their invention in class using repurposed materials.

### Glossary:

- **Sustainability:** avoiding the overuse of natural resources
- **Renewable resource:** a resource that can be replaced by natural ecological cycles (such as wind, sun, thermal heat, etc.)
- **Nonrenewable resource:** a resource that cannot be quickly replaced by natural means
- **Monsoon:** a weather pattern that involves a seasonal wind shift over a particular region, usually accompanied by an increase in atmospheric moisture and precipitation
- **Ramadan:** the ninth month of the Islamic calendar, observed by Muslims worldwide as a month of fasting, prayer, reflection and community
- **Bazaar:** marketplace consisting of multiple small stalls or shops
- **Solar:** radiant light and heat from the Sun that is harnessed using a range of technologies such as solar power to generate electricity, solar thermal energy including solar water heating, and solar architecture
- **Pollution:** the introduction of harmful materials into the environment



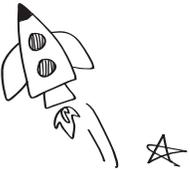
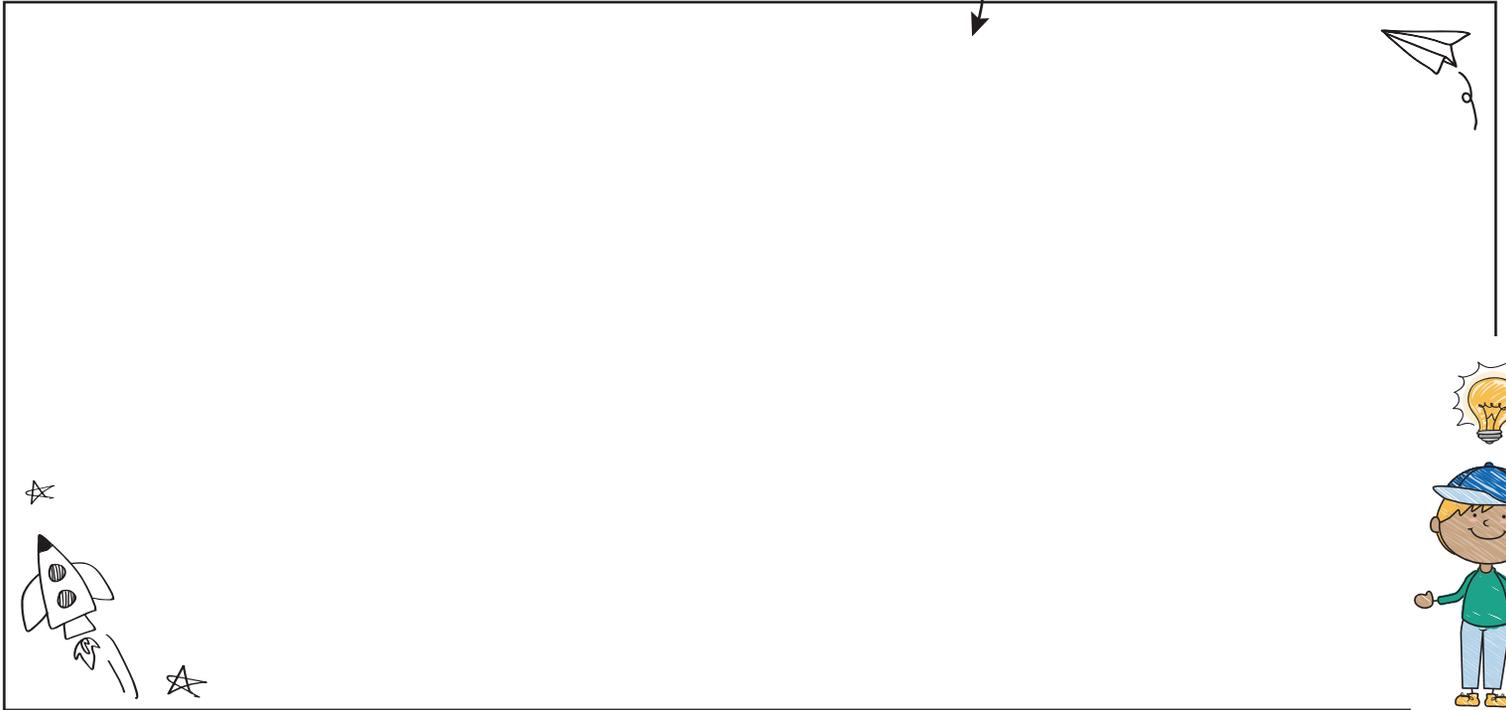
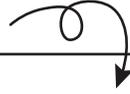
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# My Ingenious Invention

Draw a picture of you using your Ingenious Invention!



What is your Ingenious Invention called?

\_\_\_\_\_



Name the supplies you would need to make your Ingenious Invention:

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Who will your Ingenious Invention help?

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