

Core Skills Analysis

Art

- Enhanced creativity and imagination through designing and building airport structures with colored bricks.
- Developed spatial awareness by planning and arranging the lego pieces in an aesthetically pleasing manner.
- Explored color theory and design principles while making decisions on the visual aspects of the airport.
- Learned about architectural styles and elements by replicating real-life airport features using lego.

English

- Practiced descriptive writing skills by creating stories about passengers, pilots, or airport scenarios.
- Enhanced vocabulary through discussions about airport-related terminology such as 'terminal', 'boarding', 'takeoff'.
- Improved communication skills by explaining their airport design process or presenting their creation.
- Explored storytelling techniques by inventing narratives for different areas of the airport.

History

- Learned about the history of aviation and airports through research on iconic airports and airplanes.
- Explored the evolution of airport designs and layouts over different time periods.
- Understood the impact of airports on society and transportation through historical examples.
- Linked the development of airports with significant events and milestones in history.

Math

- Practiced mathematical concepts like measurements, scale, and proportions while building the airport to size.
- Applied geometry skills in creating geometric shapes like runways, terminals, and control towers.
- Developed problem-solving abilities by calculating the number of lego bricks needed for different airport structures.
- Explored patterns and symmetry in designing the layout and structure of the airport.

Music

- Explored sound and rhythm by creating a 'musical airport' where different areas represent various musical instruments or genres.
- Learned about musical compositions related to airports or flying through listening activities while building.
- Enhanced auditory perception by incorporating sound effects or background music to enhance the airport experience.
- Connected music with emotions and storytelling by assigning musical themes to different parts of the airport.

Physical Education

- Engaged in fine motor skill development through assembling and connecting the lego pieces.
- Promoted hand-eye coordination by placing smaller bricks accurately in the airport structure.

- Encouraged physical activity through role-playing scenarios like airport staff or passengers.
- Practiced teamwork and social skills if collaborating with friends or siblings in building the airport.

Science

- Explored principles of aerodynamics and flight while designing and testing lego airplanes for the airport.
- Learned about the physics of motion and energy by creating moving parts like conveyor belts or revolving doors.
- Understood environmental elements by incorporating 'green' features like solar panels or rainwater harvesting in the airport design.
- Investigated weather patterns and their impact on airport operations, such as how wind affects takeoffs and landings.

Social Studies

- Explored different cultures and countries by representing international airports with diverse architectural styles.
- Understood the role of airports in connecting people globally and facilitating cultural exchange.
- Learned about the functions of airport staff and their contributions to ensuring smooth travel experiences.
- Examined the economic impact of airports on local communities and the importance of air travel in modern society.

Tips

Encourage the child to expand their airport world by incorporating new features or expanding the existing structures. They can add details like runways for different airplane sizes, custom airport signs, or even create a mini LEGO airport city surrounding the main structure. This activity can also be a great opportunity to introduce concepts like sustainability by incorporating eco-friendly airport design elements like green spaces, electric vehicle charging stations, or bicycle lanes.

Book Recommendations

- [LEGO CITY: Airport](#) by Sonia Sander: Join the LEGO City minifigures as they explore the busy and exciting airport, solving problems and having fun along the way. Perfect for young builders and aviation enthusiasts.
- [LEGO Awesome Ideas](#) by Daniel Lipkowitz: Get inspired by amazing LEGO creations, including airports, and learn tips and tricks to take your building skills to the next level. With creative challenges and building ideas!
- [The Airport Book](#) by Lisa Brown: Follow a family as they journey through the airport, exploring the hustle and bustle of travel. A great read to complement the hands-on experience of building an airport.