



# SCRAPBOTS

## Unleash Solar Power with LEGO®

### Challenge:

How might we reinvent the “City Architect” play experience, to motivate families to return to LEGO® House?

### Improvement Opportunity:

The building component - reflective of the LEGO® core values - is not at the center of the current “City Architect” experience.

### Our Proposal:

To integrate the building and learning activities to create a cohesive educational experience for LEGO® House visitors of all ages.



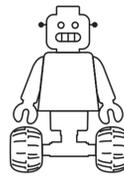
#### Scraps:

Don't let the scraps accumulate. Help the Scrapbots pick them up and keep the city's Power Tower alive.

Trash build up generates a yellow icon that suggests placement of scrapbot factory.

Randomly generated.

Projection

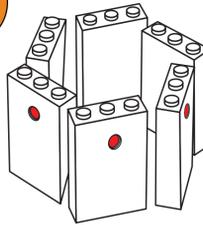


#### Scrapbots:

Help these resourceful bots keep the city clean. Build Scrapbot factories to give them the support they need and recycling stations for them to unload their scraps.

Scrapbots request recycling stations by generating a green “recycling” speech bubble.

Projection



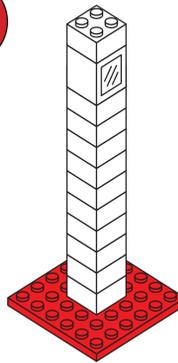
#### Power Tower:

At the center of the city, the power tower contains all the solar power needed to make the city run.

Visual representation of the solar energy that must be redirected to power the city.

Light source: six laser beams.

Fixed on board (cannot be moved or rotated).



#### Reflectors (red):

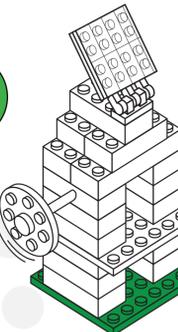
The Power Tower needs your help to use its energy efficiently. Redistribute the city's energy with the solar power Reflectors.

Must include a LEGO® block with mirror component.

Must have a rotating piece to redirect light.

Mirror height must be aligned with light source height.

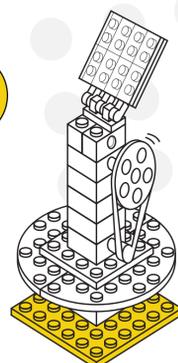
The structure may be built above the mirror height.



#### Recycling Station:

The Recycling Station transforms scraps into energy. Place Recycling Stations to help the Scrapbots unload and keep the city's Power Tower running.

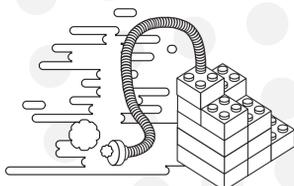
Must include LEGO® Technic composite piece with input by color sensor recognizes the laser beam and initiates simple movement.



#### Scrapbot Factory:

The Scrapbot Factory creates the Scrapbots that keep the city clean. Place Scrapbot Factories where you see the most scrap and watch the Scrapbots sweep in and save the day.

Must include LEGO® Technic composite piece with input by color, sensor recognizes the laser beam and initiates simple movement.



#### Fog:

The fog is the result of years of pollution and the accumulation of scraps.

Makes the laser beam visible.