



## Your Challenge

To design a pop star's outfit for the first concert on a newly discovered planet!

## Storyline

The year is 2055! Your group is designing a costume for a pop star. She will be the first girl to visit *PLANET EDP* with her band. The President of the Outer Space Association has selected them to give the first concert in history played in space! You will be designing the pop star's outfit!

She will play an evening concert in a natural stadium for the inhabitants. *PLANET EDP* has two moons, but they will be low that night, making it pretty dark. It will be cold (32°F), but dancing is hard work and she will build up a sweat. She needs to be able to dance and move easily in her costume. She also needs to be protected from collisions, falls, and to be able to do a knee spin on the stage. The costume should be comfortable to wear, but still look awesome at night!

## Requirements to include in your design

### Mobility

- Consider pattern shapes, features, and fabrics that allow your pop star to dance around the stage.
- What design will work best for a pop star's dance moves?

### Wearable Electronics

- Use LED lights to make sure your pop star can be seen during the evening performance!

### Insulation

- Design using fabrics and clothing features that will keep your pop star warm.
- As she dances, she will get hot, so you also have to design to let sweat escape.

### Impact Protection

- Design the outfit to protect your pop star's knees when she does knee slides or other gymnastic moves on the hard stage.

### Be Creative and Make it Look Good!

- How can you make the outfit look cool but still protect your pop star and keep her warm?

### What is the Environment and Atmosphere Like on the Planet?

- Temperature: 32°F (0°C) – think of a cold evening football game
- Air Quality: completely breathable by humans
- Gravity: Same as Earth