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5.05 Advanced Space Weather Guided Notes

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In the lesson, you will:

- relate the dynamic properties of the sun to conditions and events on Earth
- describe the role of the sun as the main source of energy for Earth

Big Ideas:

Key Questions and Terms	Notes
What causes solar winds?	
How do auroras form in Earth's outer atmosphere?	
Where do the auroras occur? Where are you most likely to see them?	
How do solar flares affect Earth?	
How do coronal mass ejections cause solar storms?	
What are some predicted effects of a CME hitting Earth now?	
Why do we need the sun?	

Snapshots from the Edge of the Sun Video

Key Questions and Terms	Notes
The sun is a mass of particles and	
fields.	
We call the sun's atmosphere the	
The steady breeze of particles flowing out from	
the sun and filling the space between the	
planets is the	

About 20 million miles out from the sun, the	
sun's field no longer controls the	
movement of the charged particles.	

Space Weather Video

Key Questions and Terms	Notes
When do solar flares happen on the sun's surface?	
M-class flares can cause brief blackouts at the poles and minor radiation storms that might endanger .	
A powerful flare can create long-lasting radiation storms, which can harm satellites and even expose airline passengers flying near the poles to small doses of radiation.	
X-class flares also have the potential to create global transmission problems and worldwide	

Coronal Mass Ejection Video:

Key Questions and Terms	Notes
A is a huge cloud of plasma burst	
out of the sun's atmosphere and is held together	
with magnetic fields.	
An average CME travels at about	
million miles per hour.	