Name _____

Dancing with the Sun: The Mystery of Solar Flares and Sunspots

Multiple Choice Questions

1. What causes sunspots to appear darker than their surroundings?

a) Intense heat

b) Magnetic pressure inhibiting heat flow

c) Nuclear fusion reactions

d) Solar flares

2. What triggers the release of energy in a solar flare?

a) Nuclear fusion reactions

b) The Sun's rotation

c) Twisted and distorted magnetic fields

d) Sunspots

3. How long can sunspots typically last?

a) A few minutes

b) Several hours

c) Several days to weeks

d) Several months

4. What is the 11-year cycle of the Sun's activity called?

a) Solar rotation

b) Sunspot cycle

c) Solar flare cycle

d) Solar minimum

5. How do scientists safely observe and study the Sun's surface, including sunspots and solar flares?

a) With regular telescopes

b) By directly looking at it with the naked eye

c) Using solar telescopes with special filters

d) Sending spacecraft to the Sun