```
C (riff)                                G
I am a mirror, light bounces off of me
C (riff)                                              C
Invented in Sidon (Side-un), in the first century C.E.

C              Em
Oh, p is the object distance
F           G
q the image, true
C        Em
r, the radius of curvature
F               G
This much you knew
C          Em
f is the focal length,
        F          G          C (intro riff & Chords)
or the radius divided by two
```

I am a concave mirror, my focus in front of me
My image characteristics, they vary constantly

```
C                    Em
Parallel ray goes in parallel
                  F               G
and through the focus it is reflected
C               Em
Focal ray goes in through the focus
     F          G
and parallel it is projected
C               Em
Chief ray goes in and out
            F               G          C (intro riff & Chords)
through the radius, it is not, redirected
```

I am a convex mirror, my focus is behind me
virtual, upright, reduced, are the only images seen

```
C                  Em
If the image is on the same side with the
F                          G
object, then the image is real
C                    Em
Place a card at the image distance,
        F               G
it will focus and be revealed.
C                  Em
If the image is on the other side,
      F                      G                    C riff
it is virtual, just like a side mirror on your automobile
```

I am a lens, light is refracted through me
Everything is almost the same, everything except verse three (stay with C riff)
I am a mirror, light bounces off of me
Yes, I am a mirror, and I can help you see.

I Am A Mirror - with Chords