

24 Two-Octave Scales

in approximate order of difficulty

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Play with smooth, projecting tone; without vibrato, for purity of intonation.

Play also 2/3/4/6/7/14/28 notes slurred per bow, and various rhythms. Obvious fingerings are omitted.

Order based on: range, open strings, accidentals, use of extensions and higher/intermediate positions.

The image displays the first six scales from a set of 24 two-octave scales for cello. Each scale is presented on two staves: the upper staff shows the scale ascending and the lower staff shows it descending. Fingerings are indicated by numbers 1-4 above or below notes. Extensions are marked with 'X' above notes. Circled numbers (1, 2, 3, 4) indicate specific positions or techniques. The scales are: 1. C major (C), 2. G major (G), 3. C minor (Cm), 4. G minor (Gm), 5. C major (C), and 6. G major (G). The notation includes various accidentals (sharps, flats, naturals) and specific fingering patterns for each scale.

D

1 X 2 4 0 1 X 2 4 0 3 0 3

3 0 3 0 X 4 2 X 0 X 4 2 X 1

Dm

1 3 0 1 X 2 0 2 0 # #

4 X 1 0 2 0 2 0 1

F

4 0 2 0 2 0 X 1 X 2 1 3

4 1 2 X 1 0 2 0 2 0 4

① ② ③

E^b

2 0 X 1 X 2 0 X 1 X 2 1 2 1 3

4 3 1 4 2 2 X 1 0 2 X 1 0 2

③ ① ②

E

1 X 2 1 X 2 1 2 1 2 1 2 1 3

② ① 1/2 ③ ②

4 3 4 2 4 2 4 2 X 4 2 X 1

③ 1/2 ① ②

Em

1 3 1 X 2 1 2 1 X 2 1 3

② ① 1/2 ③ ②

4 2 X 4 2 X 3 4 4 3 1

③ ① ②

Fm

1 3 1 X 2 1 2 1 X 2 1 3

③ ② ① ④ ③

4 b X 1 4 2 X 1 4 2 X 4 3 4 3 1

④ ① ② ③

A

1 X 2 4 0 1 X 2 4 0 1 3 1 3 1 2

③ ① ③ ① ③ ① ④ ② ④ ② ①

3 2 1 3 1 3 1 0 X 4 2 X 1 0 X 4 2 X 1

③ ① ③ ① ③ ① ④ ② ④ ② ①

Am

1 3 0 1 X 2 4 0 1 2 1 3 #1 #2

③ ⑤

3 2 1 3 1 2 1 0 4 2 0 4 1

③ ①

Bb

2 X 1 X 2 0 X 1 X 2 4 1 3 1 2

④ ⑥

3 3 4 2 X 1 0 2 X 1 0 2

④ ①

B

1 X 2 1 X 2 1 2 4 1 2 4 1 2

② ① 1/2 ③ ⑥

3 4 2 4 2 1 4 2 X 1 4 2 X 1

③ 1/2 ① ②

Bm

1 3 1 X 2 #1 #2 2 4 1 X 2 4 #1 #2

② ① 1/2 ③ ⑥

3 4 2 X 4 2 X 1 4 3 1 4 3 1

③ ④ ① ②

D^b (1/2)

Fingering: X 1 X 2 4 1 X 2 4 1 2 1 2 1 3

Circle fingering: ④ ③ ② ⑤

Circle fingering: ④ ③ ① ② ③ ④ ② ① ④ ② X ① ④ ② X ①

C[#]m 1/2

Fingering: 1 3 4 1 X 2 4 1 2 1 X 2 1 3

Circle fingering: ③ ② ① ④

Circle fingering: ④ ② X ① ④ ② X ④ ② X ① ④ ③ ① ④ ③ ①

A^b

Fingering: 1 X 2 4 1 X 2 4 1 2 1 2 1 2

Circle fingering: ④ ③ ② ⑤

Circle fingering: ② ③ ④ ④ X ① ④ ② X ①

G[#]m 1/2

Fingering: 1 3 4 1 X 2 4 1 2 1 X 2 1 3

Circle fingering: ③ ② ① ④

Circle fingering: ④ ② X ① ④ ② X ④ ② X ① ④ ③ ① ④ ③ ①

F#

1 X 2 4 1 X 2 4 1 2 1 2 1 2 1 3

③ ② ① 1/2 ③

4 4 2 4 2 1 4 2 X 1 4 2 X 1

1/2 ① ② ③

F#m

1 3 4 1 X 2 4 1 2 1 X 2 1 3

③ ② ① ④ ③

4 X 4 2 X 4 2 X 1 4 3 1 4 3 1

④ ① ② ③

D#m

1 3 4 1 X 2 1 2 4 1 X 2 1 3

1/2 ③ ② ①

4 X 1 4 2 X 4 3 4 3 1 4 3 1

② ③ 1/2

Bbm

1 3 1 X 2 1 2 4 1 X 2 1 2

② ① ④ ③ ⑥

3 4 2 X 1 4 2 X 4 3 1 4 3 1

③ ④ ① ②